STR-W555

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model
Chinese Model
Tourist Model

STR-W555 is the tuner and amplifier section in MHC-W555.

Photo : E model

SPECIFICATIONS

Amplifier section

DIN power output (rated) (Front)
80 + 80 watts
(6 ohms at 1 kHz)
Continuous RMS power output (reference)
FRONT SPEAKER:
100 + 100 watts
(6 ohms at 1 kHz,
10% THD)
Music power output (reference):
190 + 190 watts
(6 ohms at 1 kHz,
10% THD)
Inputs
MD/VIDEO 1 IN (phono jacks): voltage 450/250 mV, impedance 47 kilohms
AV INPUT AUDIO (phono jacks): voltage 250 mV, impedance 47 kilohms
MIX MIC (phono jacks): sensitivity 1 mV, impedance 10 kilohms
Outputs
MD/VIDEO 1 OUT (phono jacks): voltage 450/250 mV, impedance 1 kilohm
PHONES (stereo phone jack): accepts headphones of 8 ohms or more.
FRONT SPEAKER: accepts impedance of 6 to 16 ohms
REAR SPEAKER: accepts impedance of 16 ohms.
SUPER WOOFER: voltage 1 V, impedance 1 kilohm

Video section

Inputs
AV INPUT VIDEO (phono jack): 1 Vp-p, 75 ohms
Outputs
MONITOR OUT (phono jack): 1 Vp-p, 75 ohms

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
3 band type model: 87.5 – 108.0 MHz (50 kHz step)
4 band type model: 65.0 – 74.0 MHz (10 kHz step)
87.5 – 108.0 MHz (50 kHz step)
Aerial: FM lead aerial
Aerial terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

UKV tuner section (4 band type model only)

Tuning range: 65.0 – 74.0 MHz (10 kHz step) Polar Stereo

AM tuner section

Tuning range: MW: (with interval set at 9 kHz)
3 band type model: 531 – 1,602 kHz
4 band type model: 531 – 1,602 kHz
LW: 153 – 279 kHz (with interval set at 3 kHz)
Intermediate frequency: 450 kHz
Aerial: AM loop aerial
External aerial terminal

General

Power requirements
European, Thai, Israel, Chinese models: : 220 V AC, 50/60 Hz
Australian model: : 240V AC, 50/60Hz
Other models: : 120V, 220V or 230-240V AC, 50/60Hz Adjustable with voltage selector
Power consumption: 220 watts
Dimensions (w/h/d): Approx. 288 x 205 x 375 mm
Mass: Approx. 7.8 kg

Design and specifications are subject to change without notice.

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL	PRODUCT COUNTRY	POWER CORD	JACK (MIC2) (Refer to Fig 3)	LABEL MODEL NUMBER (Refer to Fig 1)	PTY button (Refer to Fig 2)
AEP	MALAYSIA		NOT USED	4-210-483-0☐	USED
East European ,CIS	MALAYSIA		NOT USED	4-210-483-0☐	NOT USED
Saudi Arabia ,Taiwan	MALAYSIA		NOT USED	4-210-481-0☐	NOT USED
Singapore ,Malaysia	MALAYSIA		NOT USED	4-210-479-0☐	NOT USED
Saudi Arabia	JAPAN		USED	4-210-481-0☐	NOT USED
Thai	THAI		NOT USED	4-210-482-0☐	NOT USED
Israel	MALAYSIA		NOT USED	4-210-482-1☐	NOT USED
Argentine	MALAYSIA		NOT USED	4-210-479-0☐	NOT USED
Australian	MALAYSIA		NOT USED	4-210-480-0☐	NOT USED
UK	MALAYSIA		NOT USED	4-210-483-1☐	NOT USED
E	MALAYSIA		NOT USED	4-210-479-0☐	NOT USED
Chinese	MALAYSIA		NOT USED	4-210-492-1☐	NOT USED
Tourist	JAPAN		USED	4-210-481-0☐	NOT USED

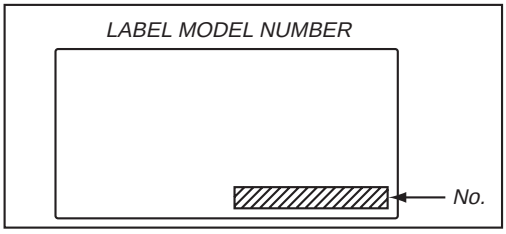

Fig 1.

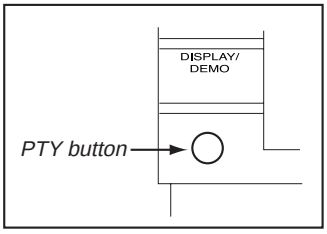

Fig 2.

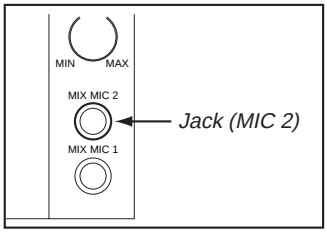

Fig 3.

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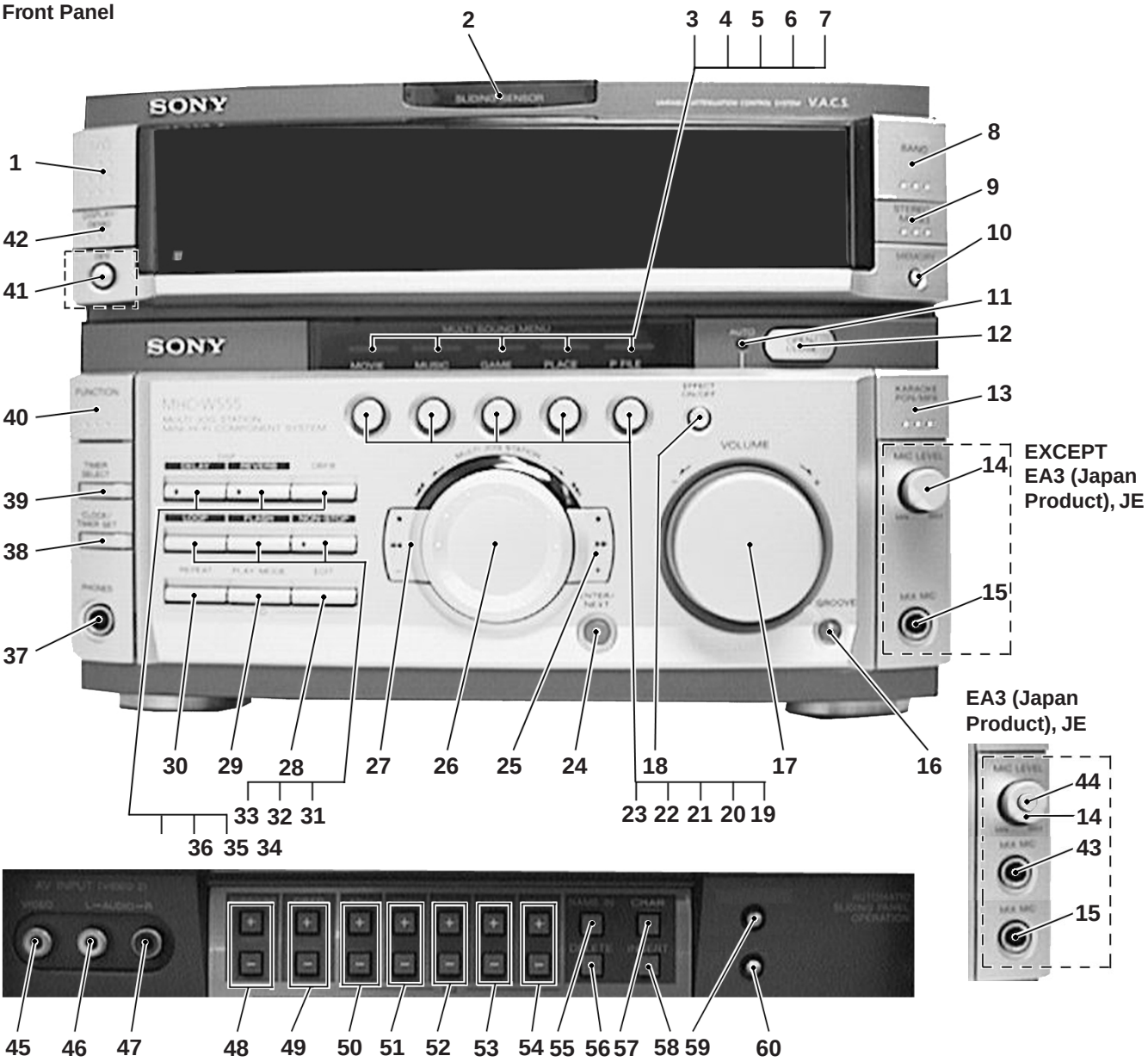
SECTION 1
GENERAL

Front Panel



LOCATION OF PARTS AND CONTROLS

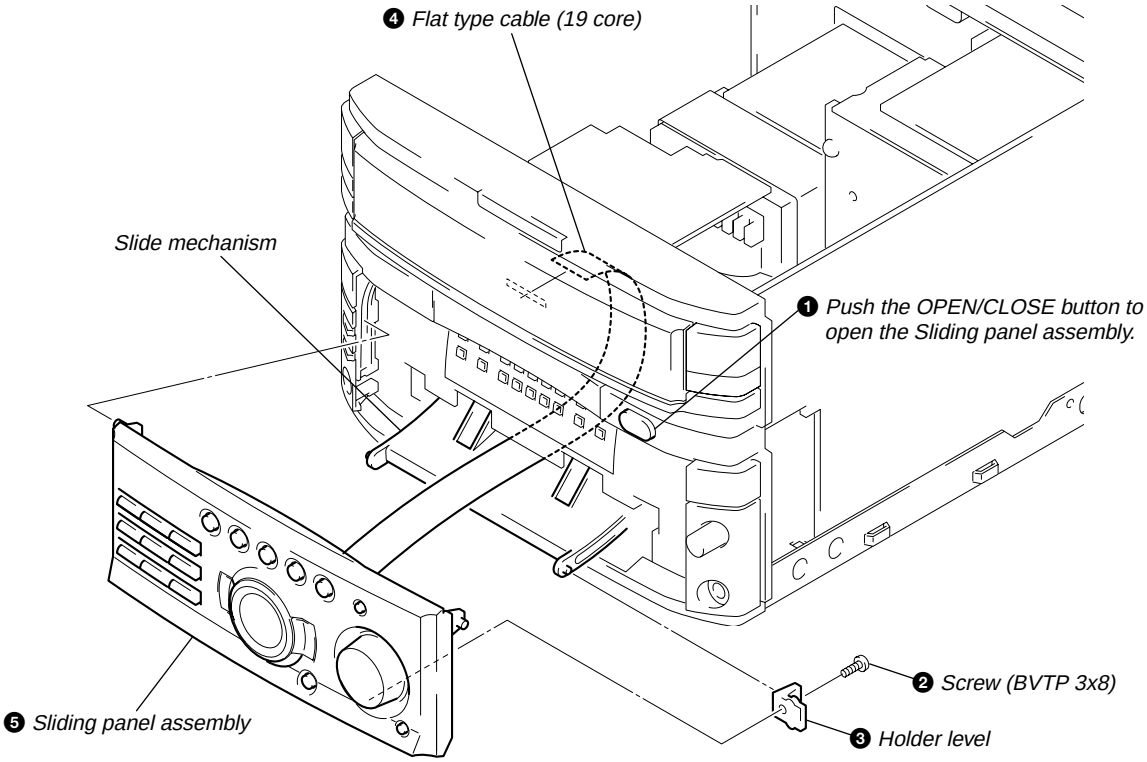
1 I/⏻ (Power) button
2 SLIDING SENSOR window
3 MOVIE indicator
4 MUSIC indicator
5 GAME indicator
6 PLACE indicator
7 P FILE indicator
8 TUNER/BAND button
9 STEREO/MONO button
10 MEMORY button
11 AUTO indicator
12 OPEN/CLOSE button
13 KARAOKE PON/MPX button
14 MIC LEVEL knob
15 MIX MIC jack (EXCEPT EA3 (Japan Product), JE model)
MIC 1 jack (EA3 (Japan Product), JE model)
16 GROOVE button and indicator
17 VOLUME knob
18 EFFECT ON/OFF button and indicator
19 P FILE button
20 PLACE button
21 GAME button
22 MUSIC button
23 MOVIE button
24 ENTER/NEXT button and indicator
25 ▶▶ + button and indicator
26 ⏮ ◀ MULTI JOG STATION ▶ ⏭ dial
27 ◀◀ – button and indicator
28 CD EDIT button
29 CD PLAY MODE button
30 CD REPEAT button
31 NON-STOP button and indicator
32 FLASH button
33 LOOP button
34 DBFB button
35 DSP REVERB button and indicator
36 DSP DELAY button and indicator
37 PHONES jack
38 CLOCK/TIMER SET button
39 TIMER SELECT button
40 FUNCTION button
41 PTY button (AEP, UK model)
42 DISPLAY/DEMO button
43 MIC 2 jack (EA3 (Japan Product), JE model)
44 ECHO LEVEL knob (EA3 (Japan Prooduct), JE model)
45 VIDEO (AV INPUT (VIDEO 2)) jack
46 AUDIO-L (AV INPUT (VIDEO 2)) jack
47 AUDIO-R (AV INPUT (VIDEO 2)) jack
48 SURROUND +/– buttons
49 DBFB +/– buttons
50 63Hz +/– buttons
51 250Hz +/– buttons
52 1kHz +/– buttons
53 4kHz +/– buttons
54 16kHz +/– buttons
55 NAME IN button
56 DELETE button
57 CHAR button
58 INSERT button
59 OPEN SENSOR ON/OFF button
60 EQ MEMORY button

• Abbreviation
EA3 : Saudi Arabia model.
JE : Tourist model.

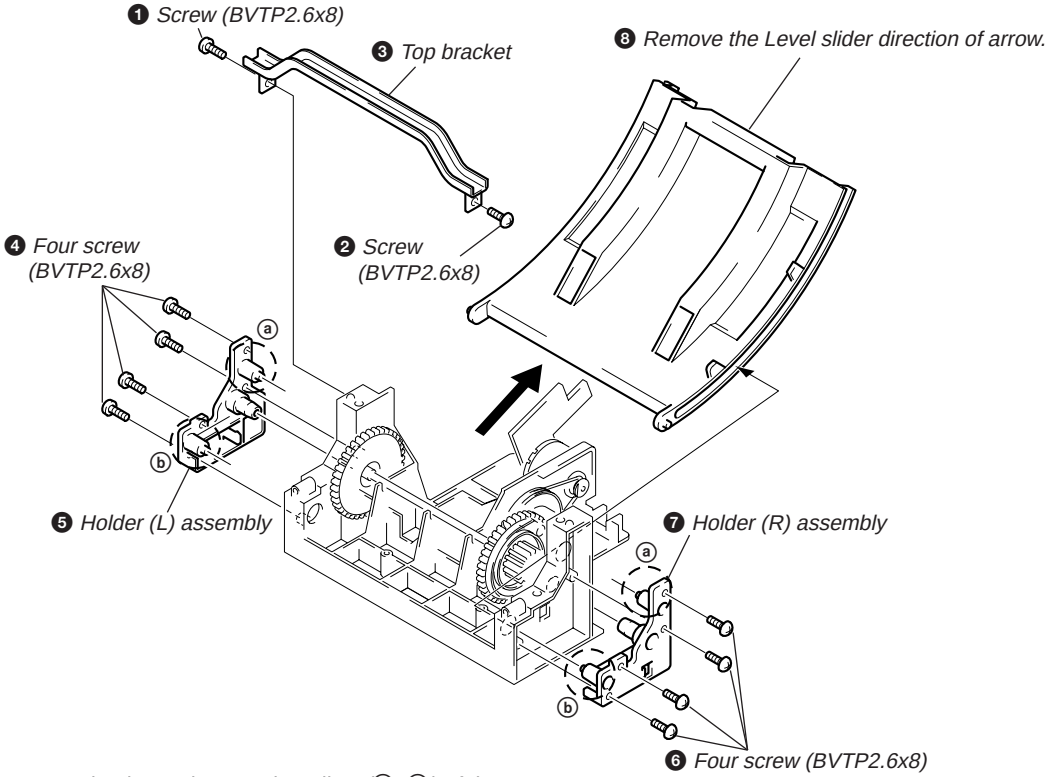
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

• SLIDING PANEL ASSEMBLY


❹ Flat type cable (19 core)
Slide mechanism
❶ Push the OPEN/CLOSE button to open the Sliding panel assembly.
❷ Screw (BVTP 3x8)
❸ Holder level
❺ Sliding panel assembly

NOTE FOR INSTALLATION (LEVEL SLIDER)

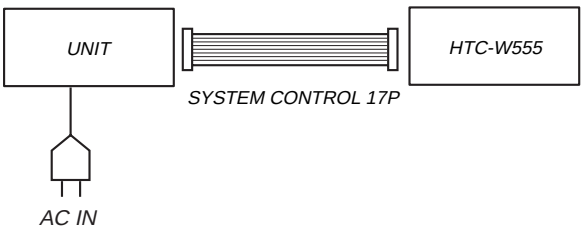


NOTE :
Attach in the reverse order, but make sure the rollers (ⓐ, ⓑ) of the holder (L) assembly and holder (R) assembly fit into the grooves of the level slider.

SECTION 3
SERVICE MODE

Connections and Operations When Used Alone

Normally, use the unit connected to the HTC-W555 as follows.
Basically, when servicing the unit, connect the unit as follows.



Even when not connected to the HTC-W555, the unit can operate alone as it mounts a power supply (some functions will however not be available).

MC Cold Reset

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [EDIT], [ENTER/NEXT], and [DISPLAY/DEMO] simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

CD Delivery Mode (This mode can be used only when the HTC-W555 is connected.)

• This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [LOOP] button and [I/⏻] button simultaneously.
3. A message “LOCK” is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [REPEAT], [ENTER/NEXT], and [DISPLAY/DEMO] simultaneously.
2. The fluorescent indicator tube becomes blink instantaneously, and the set is reset.

Sled Servo Mode (This mode can be used only when the HTC-W555 is connected.)

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Select the function “CD”.
2. Press three buttons [FLASH], [ENTER/NEXT], and [KARAOKE PON/MPX] simultaneously.
3. The Sled Servo mode is selected, if “CD” is blinking on the fluorescent indicator tube.
4. With the CD in stop status, press [▶▶ +] button move the pick-up to outside track, or [– ◀◀] button to inside track.
5. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Press three buttons in the same manner as step 2.

Note:

• Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of FUNCTION Name

• The FUNCTION name of external input terminal can be changed over to VIDEO 1 or MD. With the FUNCTION selected to “MD”, about 5dB mute is applied to the input gain.

Procedure:

1. Press [I/⏻] button to turn the set OFF.
2. Press [I/⏻] button together with [FUNCTION] button, and the power is turned on, the display of fluorescent indicator tube changes to “MD” or “VIDEO 1” instantaneously, and thus the FUNCTION is changed over.

Change-over of AM Tuner Step between 9kHz and 10kHz

• A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function “TUNER”, and press [TUNER/BAND] button to select the BAND “AM”.
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER/NEXT] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to “AM 9k STEP” or “AM 10k STEP”, and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode (Do not connect the HTC-W555.)

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Press the OPEN/CLOSE button to open the sliding panel.
3. Press three buttons DELAY , ENTER/NEXT , and DISPLAY/DEMO simultaneously.
4. LEDs and fluorescent indicator tube are all turned on. Each time the MOVIE button is pressed, the fluorescent indicator tube lights up as follows:
   lights up completely → lights up partially 1 → lights up partially 2 → lights up completely.
5. Press GAME button, and the key check mode is activated.
6. In the key check mode, the fluorescent indicator tube displays "K @@ V0 J0". Each time a button is pressed, "K"value decreases. However, once a button is pressed, it is no longer taken into account. (@@ means the total of buttons)
   "J" Value increases like 1, 2, 3 ... if rotating JOG knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
   "V" Value increases like 1, 2, 3 ... if rotating VOLUME knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
7. Pressing all buttons lights up the fluorescent indicator tube completely.
8. To exit from this mode, press three buttons EDIT , ENTER/NEXT and DISPLAY/DEMO simultaneously. (COLD RESET)
9. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

CD, TAPE Deck Aging Mode (This mode can be used only when the HTC-W555 is connected.)

This mode can be used for checking the operations of the CD player and tape deck.

- When problems occur;
  Aging stops, and the stopped state is displayed on the fluorescent indicator tube.
- When no problems;
  Aging continues.

Preparations:

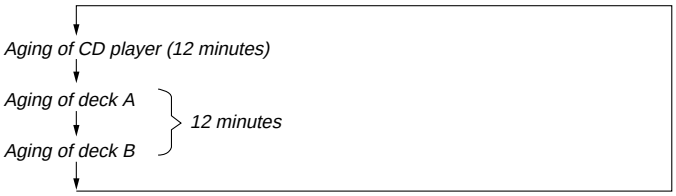
- Set the CD on the DISC1 tray.
- Insert a commercially available tape for recording (tapes which contents can be erased, etc.) in decks A and B.

Setting the aging mode:

Press the PLAY MODE button, ENTER/NEXT button, and STEREO/MONO button together.
When the aging mode is set, the CD roulette mark blinks. To exit the mode, press the I/⏻ button and turn OFF the power.

Sequence:

The aging mode is executed in the following sequence.
If the function is set to "CD" when the aging mode is set, aging is performed starting from the CD player. When set to "TAPE A" or "TAPE B", aging is started from deck A.
If the function is set to others, aging will not be started until the function is switched to CD or TAPE.



Display of status:

- The aging status is displayed on the fluorescent indicator tube.
- Normally, the CD player displays the remaining aging time. But if operations ended abnormally, it displays the cause.
- During the aging of the tape deck, the operations performed will be displayed. If operations ended abnormally, this will be displayed at the fluorescent display tube.

CD Player

- During normal operations:
  Display of fluorescent indicator tube

**1-@@

**: Displays "CD" and the remaining aging time (minutes) alternately. The remaining aging time is counted down from 12.

@@: Track number being accessed.

• When operations end abnormally:

Display of fluorescent display tube

Display	Main Cause
NO DISC ERR	DISC 1 is NO DISC from the beginning
FOCUS1 ERR	Focus is not imposed properly
FOCUS2 ERR	The focus deviated several times after the disc rotated normally
GFS ERR	GFS ERROR
FBIAS ERR	Error during focus bias adjustment
SENSOR ERR	DISC 1 was found to be NO DISC by the disc sensor
TABLE ERR	The table did not rotate normally
TRAY ERR	The tray containing the BD did not operate normally

Tape Deck

Display of Operations	Operation	Timing of Ending
TAPE A AG-1	TAPE A REW	Shutoff
TAPE A AG-2	TAPE A FWD	2 minute playback
TAPE A AG-3	TAPE A FF	20 seconds or shutoff
TAPE A AG-4	TAPE A REV	2 minutes playback
TAPE A AG-5	TAPE A REW	Shutoff
TAPE B AG-1	TAPE B REW	Shutoff
TAPE B AG-2	TAPE B FWD	2 minute playback
TAPE B AG-3	TAPE B FF	20 seconds or shutoff
TAPE B AG-4	TAPE B REV	2 minute playback
TAPE B AG-5	TAPE B REW	Shutoff

Operations during aging

• Operations are performed in the following sequence during aging

<CD player>

1. The CD tray rotates and disc 1 is selected.
2. Chucking is performed.
3. TOC is read.
4. Track 1 played back for 2 seconds.
5. The last track is played back for 2 seconds.
6. 1 to 5 is repeated.
7. After 12 minutes of aging, aging is switched to the tape deck.

<Tape Deck>

1. The tape in deck A is rewound to the head.
2. The FWD side is played back for 2 minutes.
3. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
4. The REV side is played back for 2 minutes.
5. The tape is rewound to the head (REW).
6. The tape in deck B is rewound to the head.
7. The FWD side is played back for 2 minutes.
8. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
9. The REV side is played back for 2 minutes.
10. The tape is rewound to the head (REW).
11. Aging is switched to the CD player.

PANEL Aging Mode

This mode is used for opening and closing the sliding panel continuously.

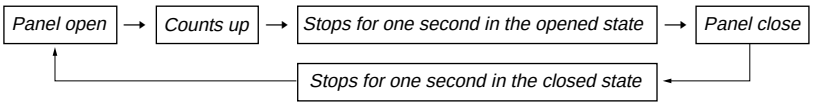
Setting the aging mode :

With the set at standby condition, press FLASH button, ENTER/NEXT button and STEREO/MONO button together. The aging will start and sliding panel will follow aging sequence as described below.

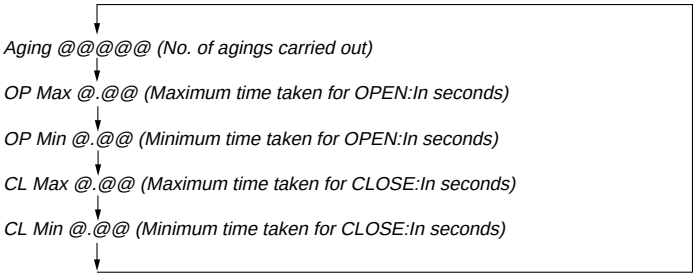
- When problems occur ;
  Aging stops and “AGING ERROR” is displayed on the fluorescent indicator tube.

- When no problems;
  Aging is carried out repeatedly. After 65000 times, “AGING STOP” is displayed and aging stops.

Aging Sequence



Each time the DISPLAY/DEMO button is pressed, the display switches as follows.


Aging @@@@@ (No. of agings carried out)
OP Max @.@@ (Maximum time taken for OPEN:In seconds)
OP Min @.@@ (Minimum time taken for OPEN:In seconds)
CL Max @.@@ (Maximum time taken for CLOSE:In seconds)
CL Min @.@@ (Minimum time taken for CLOSE:In seconds)

SECTION 4
ELECTRICAL ADJUSTMENT

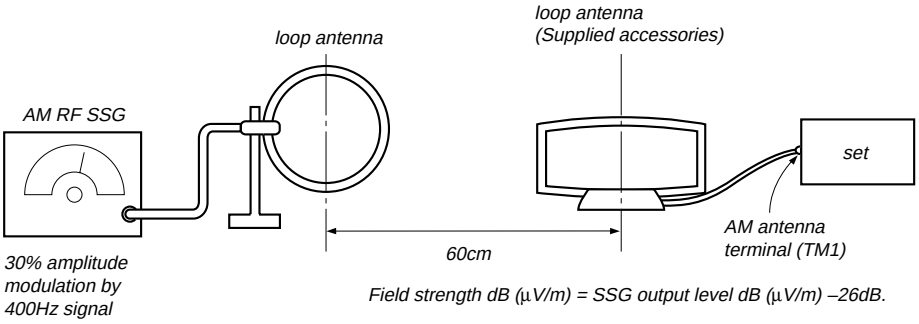
TUNER SECTION | **0dB=1μV**

Note 1: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.
Note 2: No adjustment is needed for a tuner pack except for AEP, UK, German, East European, CIS models.

AM Tuned Level Adjustment (AEP, UK, East European, CIS model only)

Note: FM Tuned Level adjustment should be performed after this AM Tuned Level Adjustment.

Setting:
Band: MW



Field strength dB (μV/m) = SSG output level dB (μV/m) –26dB.

Modulation: 999 kHz (at 9 kHz step)
1,050 kHz (at 10 kHz step)

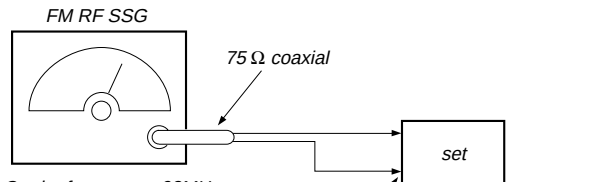
Procedure:
1. Set the output of SSG so that the input level of the set becomes 55 dB.
2. Tune the set to 999 kHz or 1,050 kHz.
3. Adjust RV41 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

FM Tuned Level Adjustment (AEP, UK, East European, CIS model only)

Note: This adjustment should be performed after the AM Tuned Level Adjustment.

Setting:
Band: FM

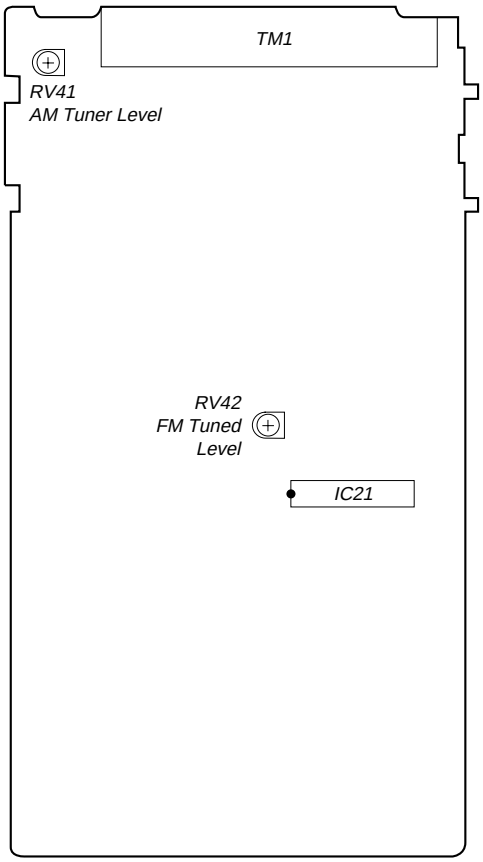


Carrier frequency: 98MHz
Modulation: AUDIO 1kHz, 75kHz deviation (100%)
Output level: 25dB (at 75 Ω open)

Procedure:
1. Supply a 25 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust RV42 to the point (moment) when the TUNED indicator will change from going off to going on.

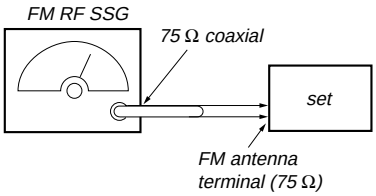
Adjustment Location: TCB board

Adjustment Location
[TCB BOARD] (Component Side)



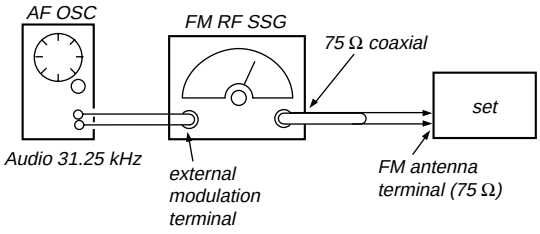
FM Polar Adjustment (East European, CIS model only)

Connection 1 :



Carrier frequency: 69 MHz
Output level: 1 mV (60 dBμ) (at 75 Ω open)
Modulation: AUDIO 1 kHz, 10 kHz deviation

Connection 2 :



Carrier frequency: 69 MHz
Output level: 1 mV (60 dBμ) (at 75 Ω open)
Modulation: AUDIO 31.25 kHz, 10 kHz deviation (EXTERNAL MODULATION)

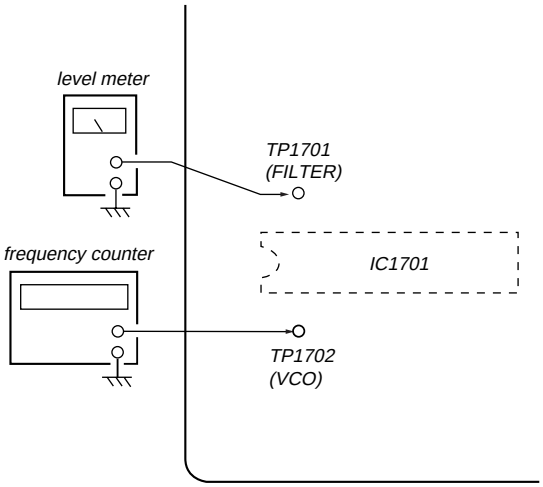
Procedure :

1. Set the modulation of FM RF SSG to AUDIO 1 kHz, 10 kHz deviation according to “Connection 1”.
2. Tune the set to 69 MHz.
3. Adjust the RV1702 so that the reading of frequency counter connected to TP1702 (VCO) becomes within 31.25 kHz ± 0.05 kHz. (VCO adjustment)
4. Then record the reading of the level meter connected to TP1701.
5. Set the modulation of FM RF SSG to AUDIO 31.25 kHz, 10 kHz deviation according to “Connection 2”.
6. Tune the set to 69 MHz.
7. Set the CT1701 to be mechanical center.
8. Adjust the L1701 so that the reading of the level meter connected to TP1701 (FILTER) becomes maximum.
   Then adjust the CT1701 so that the reading of the level meter connected to TP1701 (FILTER) becomes maximum. (SUB CARRIER PEAK Adjustment)
9. Adjust the RV1701 so that the level at the moment becomes 14 dB higher value than the level recorded in step 4. (SUB CARRIER LEVEL Adjustment)

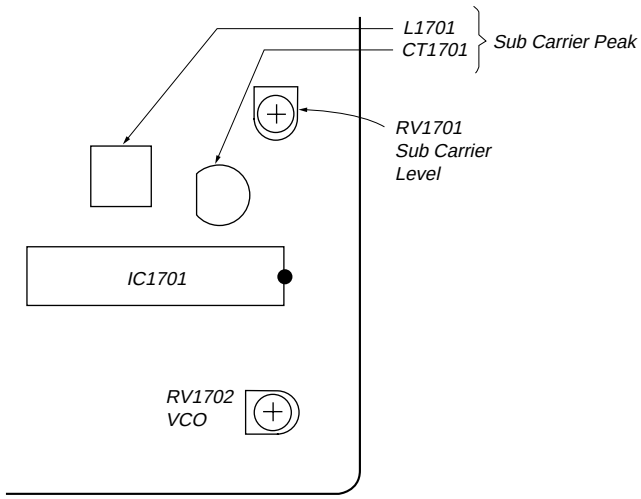
Adjustment Location: TCB board

Adjustment Location:

[TCB BOARD] (Conductor Side)

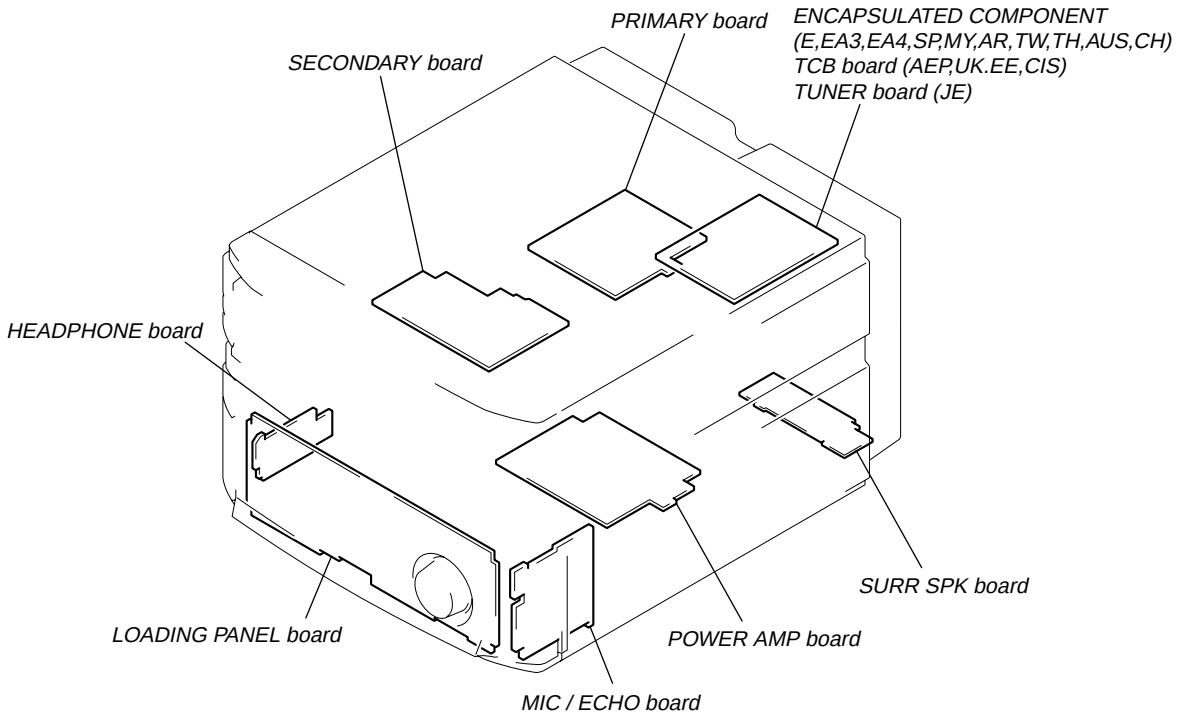


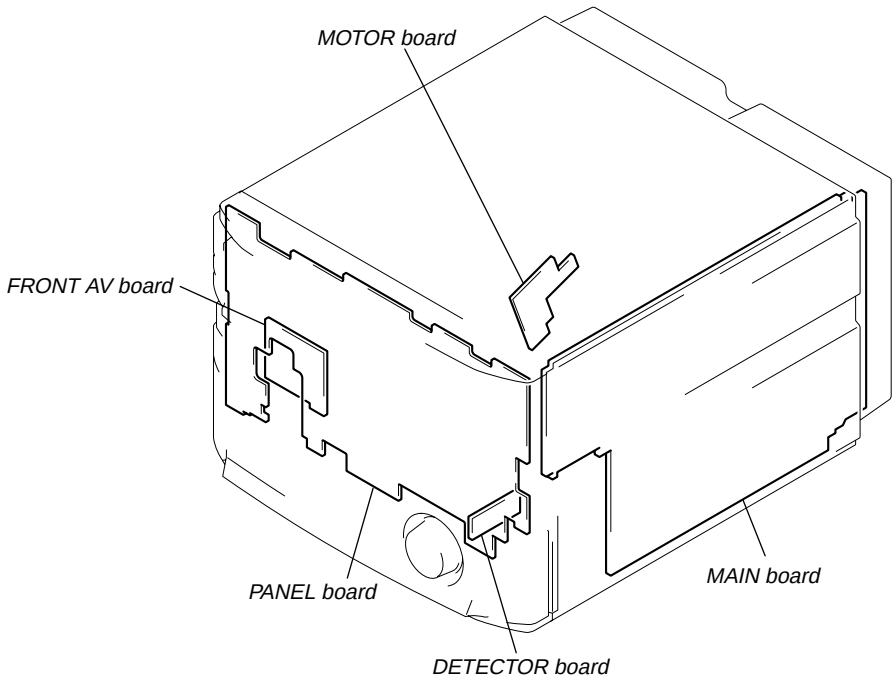
[TCB BOARD] (Component Side)



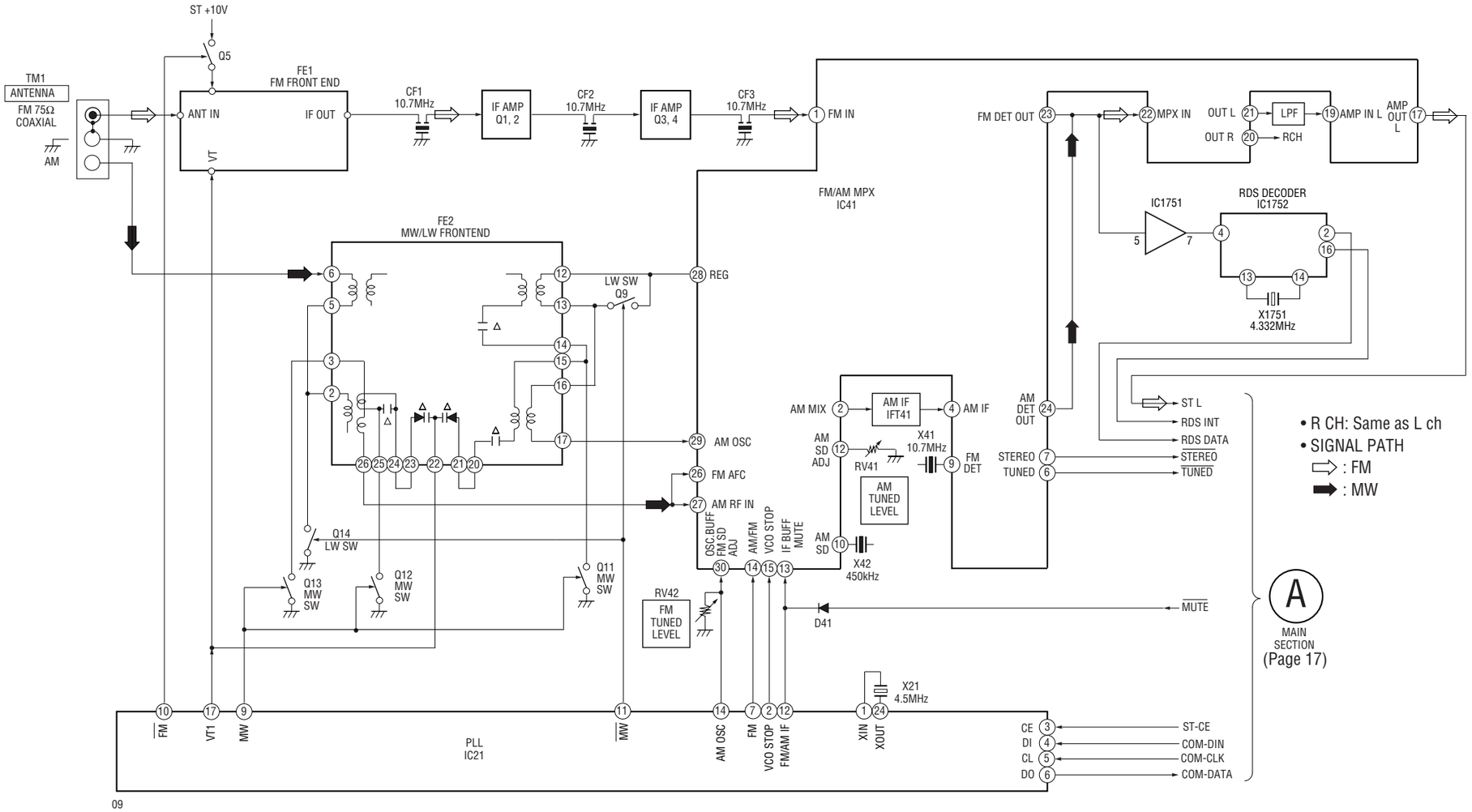
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

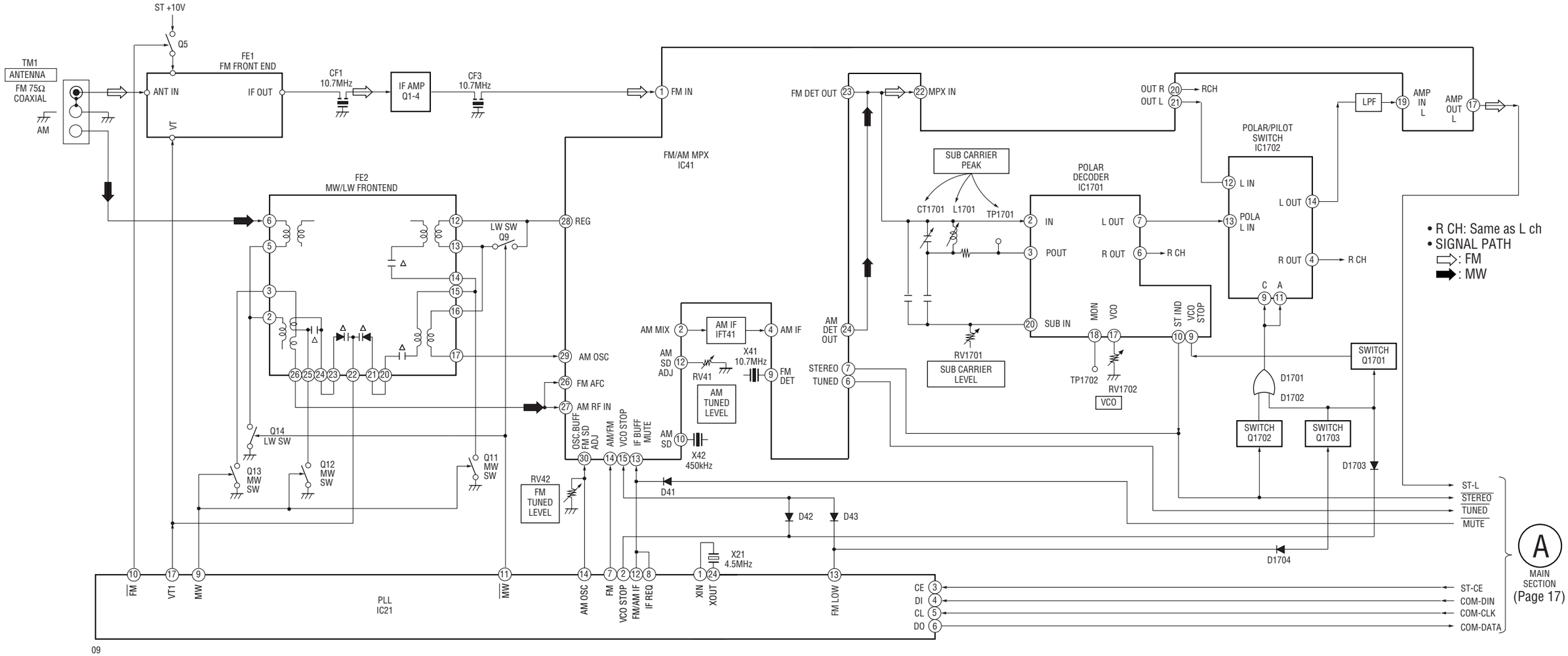




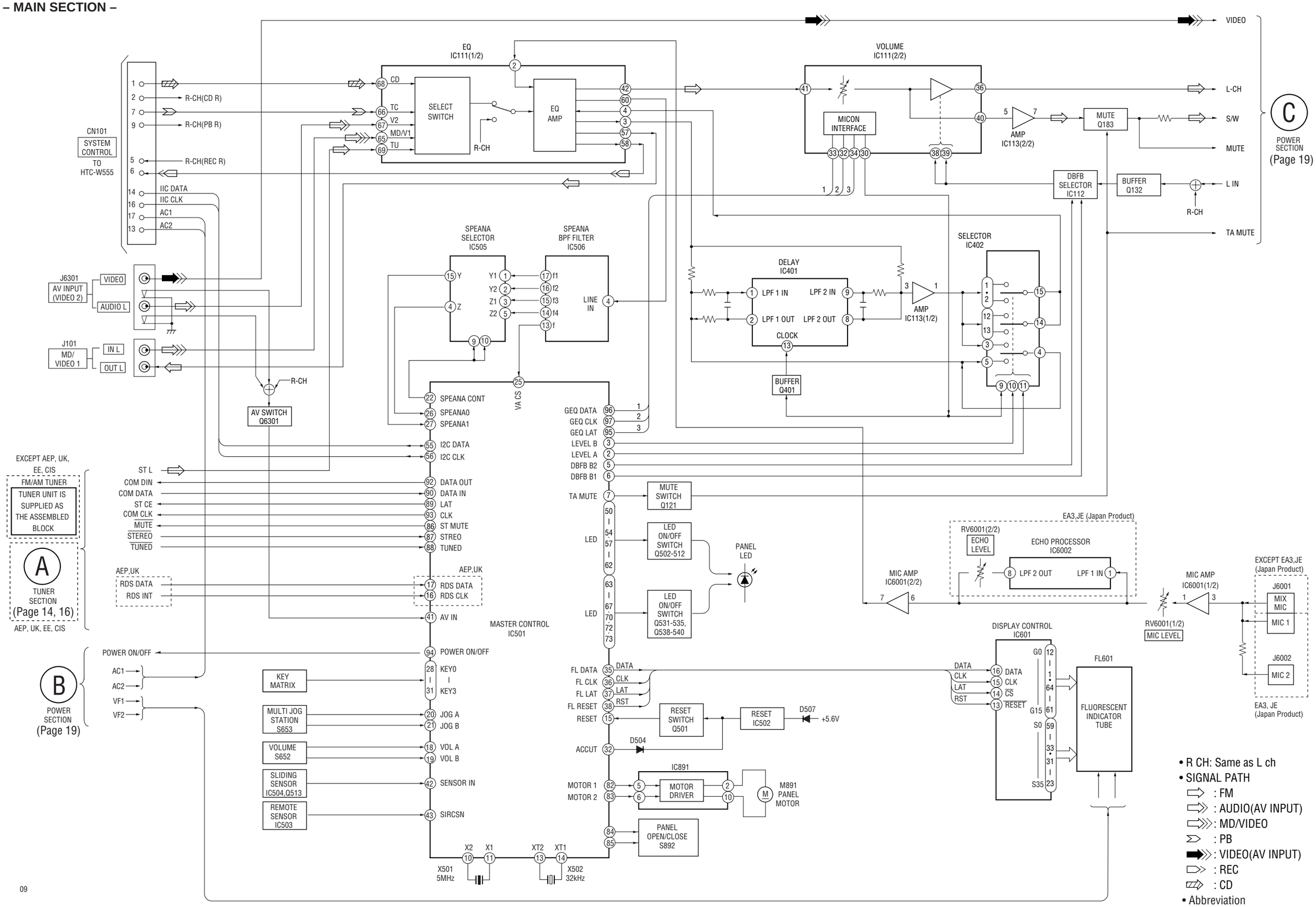
5-2. BLOCK DIAGRAMS
– TUNER SECTION – (AEP, UK model)



– TUNER SECTION – (East European, CIS model)



– MAIN SECTION –



- R CH: Same as L ch
- SIGNAL PATH
  - ⇨ : FM
  - ⇨ : AUDIO(AV INPUT)
  - ⇨ : MD/VIDEO
  - ⇨ : PB
  - ⇨ : VIDEO(AV INPUT)
  - ⇨ : REC
  - ⇨ : CD
- Abbreviation
  - EA3 : Saudi Arabia model.
  - JE : Tourist model.

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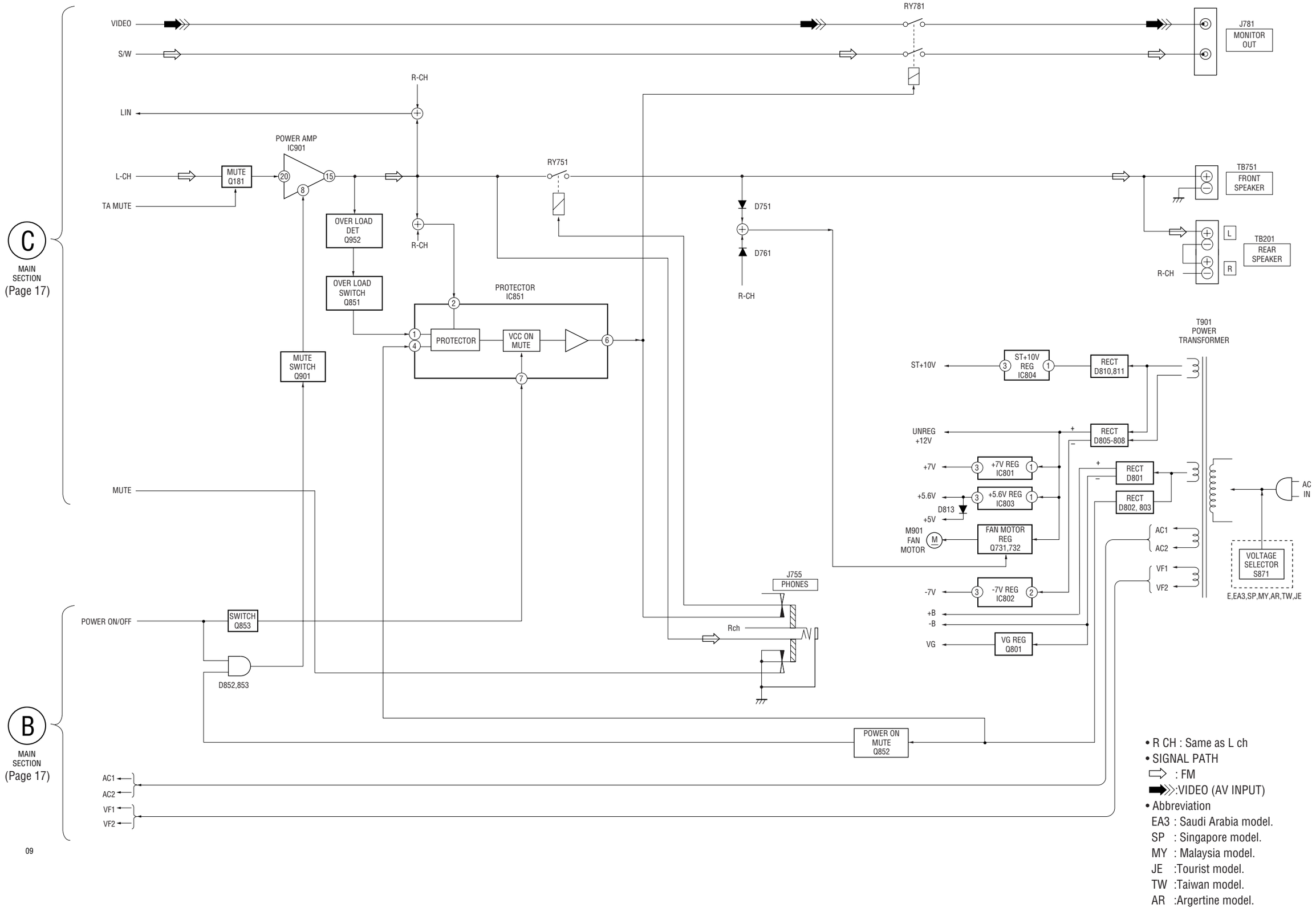
– POWER SECTION –



09

- R CH : Same as L ch
- SIGNAL PATH
  ⇨ : FM
  ➡⋙:VIDEO (AV INPUT)
- Abbreviation
  EA3 : Saudi Arabia model.
  SP : Singapore model.
  MY : Malaysia model.
  JE :Tourist model.
  TW :Taiwan model.
  AR :Argentine model.

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

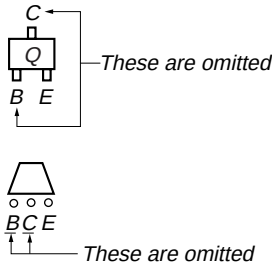
- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : AM
  - : AUDIO (AV INPUT)
  - : MD/VIDEO
  - : VIDEO (AV INPUT)
  - : PB (DECK A)
  - : REC (DECK B)
  - : CD
- Abbreviation
  - EE : East European model.
  - EA3 : Saudi Arabia model.
  - EA4 : Israel model.
  - EA : Middle East model. (Saudi Arabia and Israel)
  - AUS : Australian model.
  - SP : Singapore model.
  - MY : Malaysia model.
  - TW : Taiwan model.
  - JE : Tourist model.
  - AR : Argentine model.
  - TH : Thai model.
  - CH : Chinese model.

For printed wiring boards.

Note:

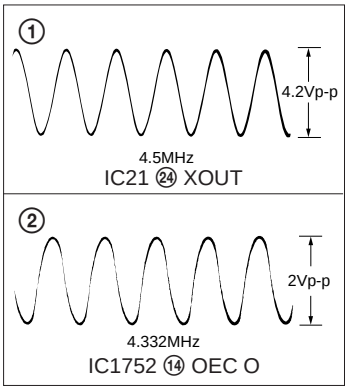
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.

- **Indication of transistor**

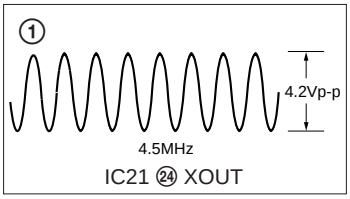


WAVEFORMS

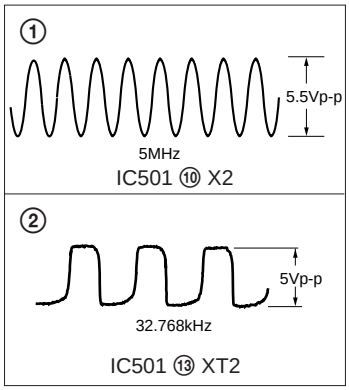
– TUNER SECTION –
(AEP, UK model)



– TUNER SECTION –
(East European, CIS model)

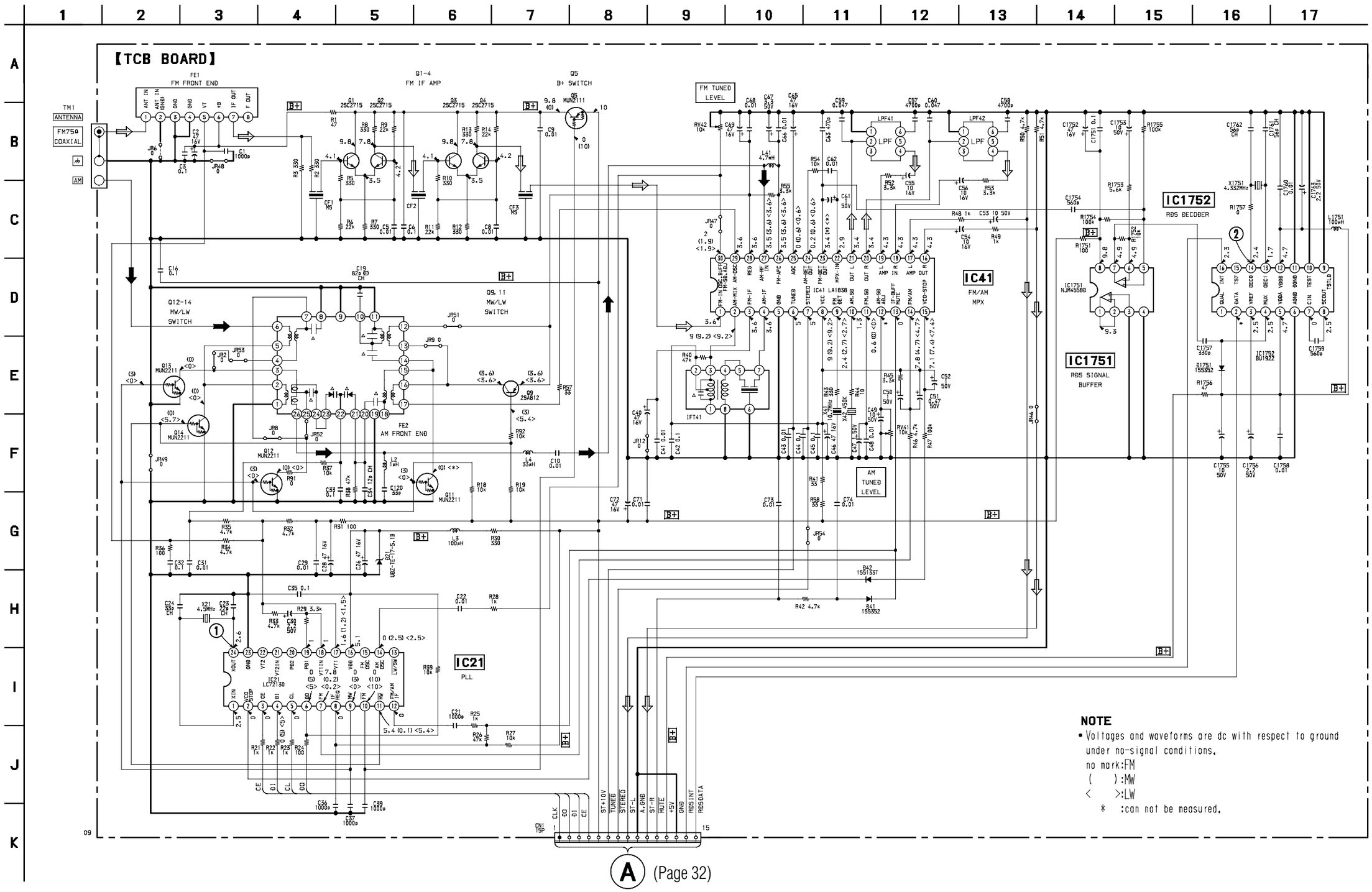


– DISPLAY SECTION –



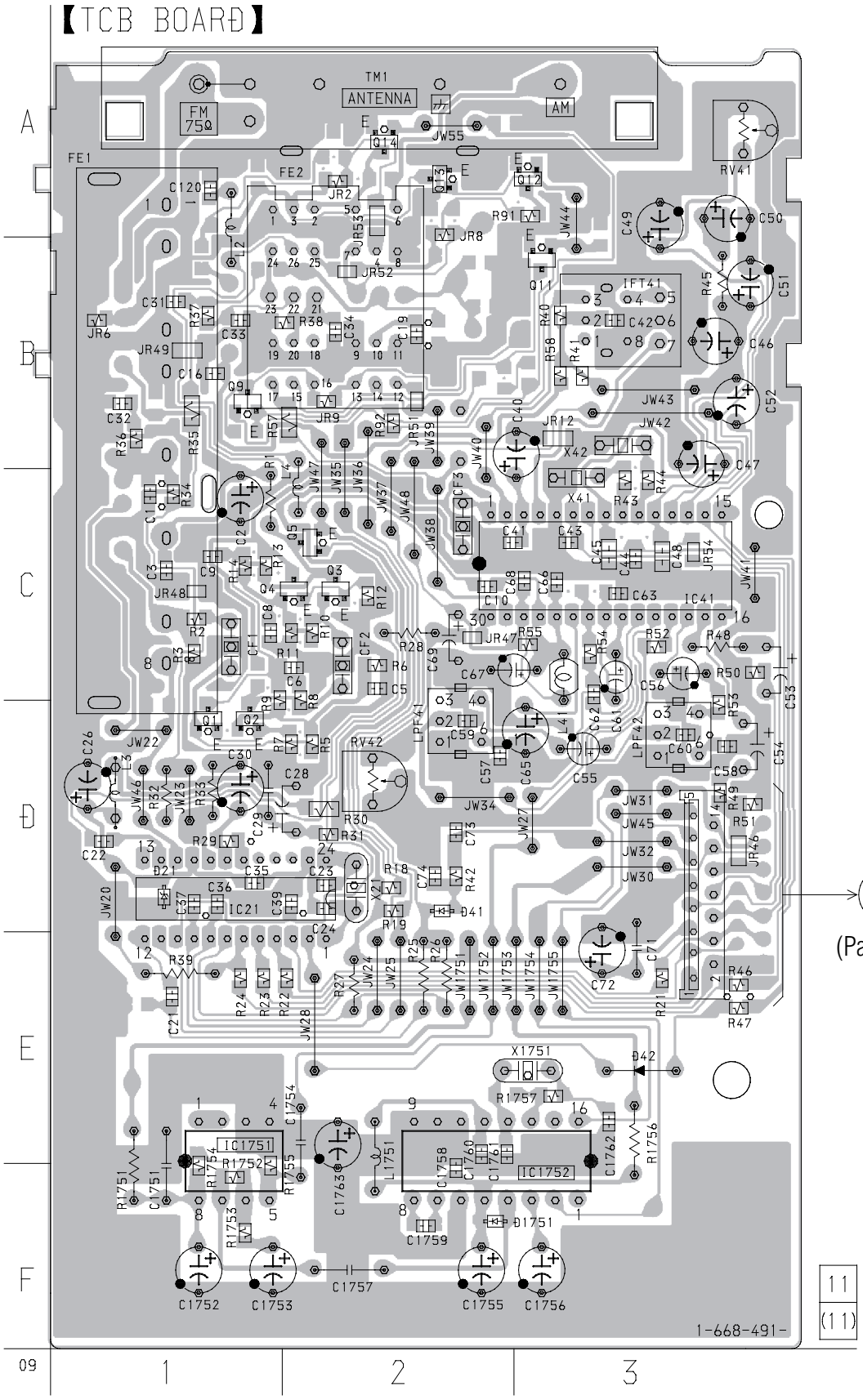
5-3. SCHEMATIC DIAGRAM – TUNER SECTION – (AEP, UK model)

- See page 22 for Waveforms.
- See page 52 for IC Block Diagrams.



5-4. PRINTED WIRING BOARD – TUNER SECTION – (AEP, UK model)

• See page 12 for Circuit Boards Location.

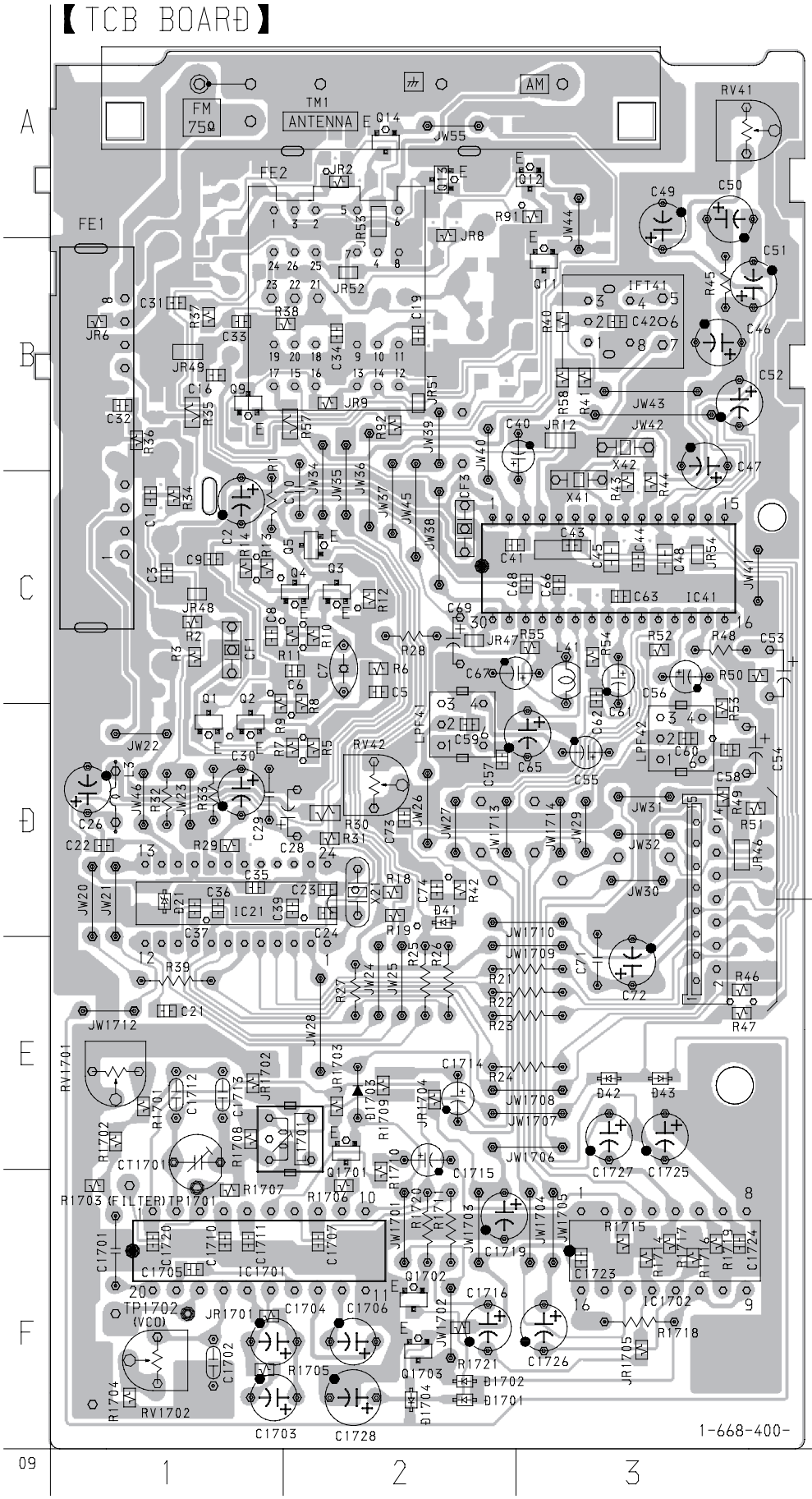


• **Semiconductor Location**

Ref. No.	Location
D21	D-1
D41	D-2
D42	E-3
D1751	F-2
IC21	D-1
IC41	C-3
IC1751	E-1
IC1752	F-3
Q1	D-1
Q2	D-1
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2

5-5. PRINTED WIRING BOARD – TUNER SECTION – (East European, CIS model)

• See page 12 for Circuit Boards Location.

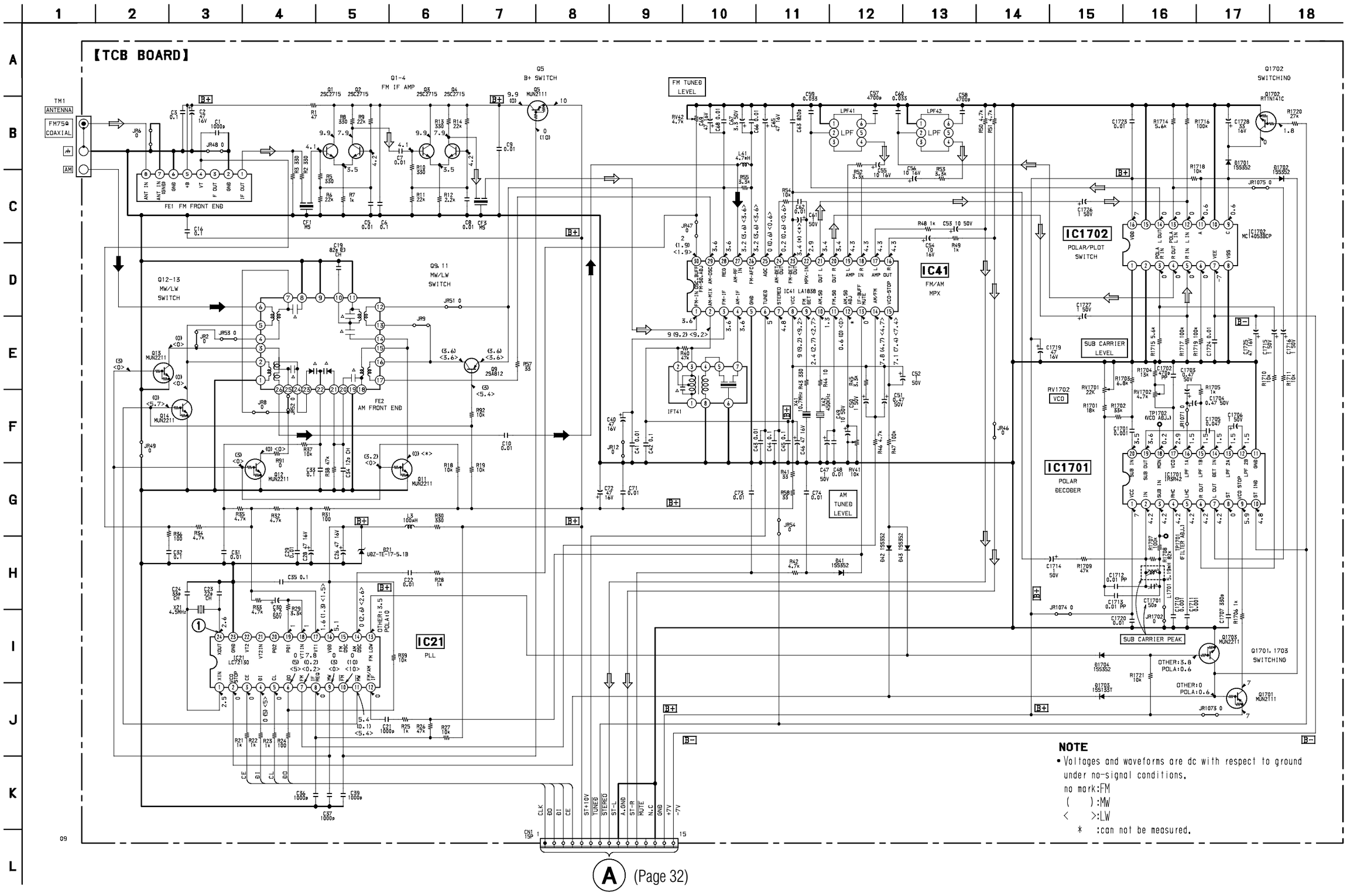


• **Semiconductor Location**

Ref. No.	Location
D1	D-1
D41	D-2
D42	E-3
D43	E-3
D1701	F-2
D1702	F-2
D1703	E-2
D1704	F-2
IC21	D-1
IC41	C-3
IC1701	F-1
IC1702	F-3
Q1	D-1
Q2	D-2
Q3	C-2
Q4	C-2
Q5	C-2
Q9	B-1
Q11	B-3
Q12	A-3
Q13	A-2
Q14	A-2
Q1701	E-2
Q1702	F-2
Q1703	F-2

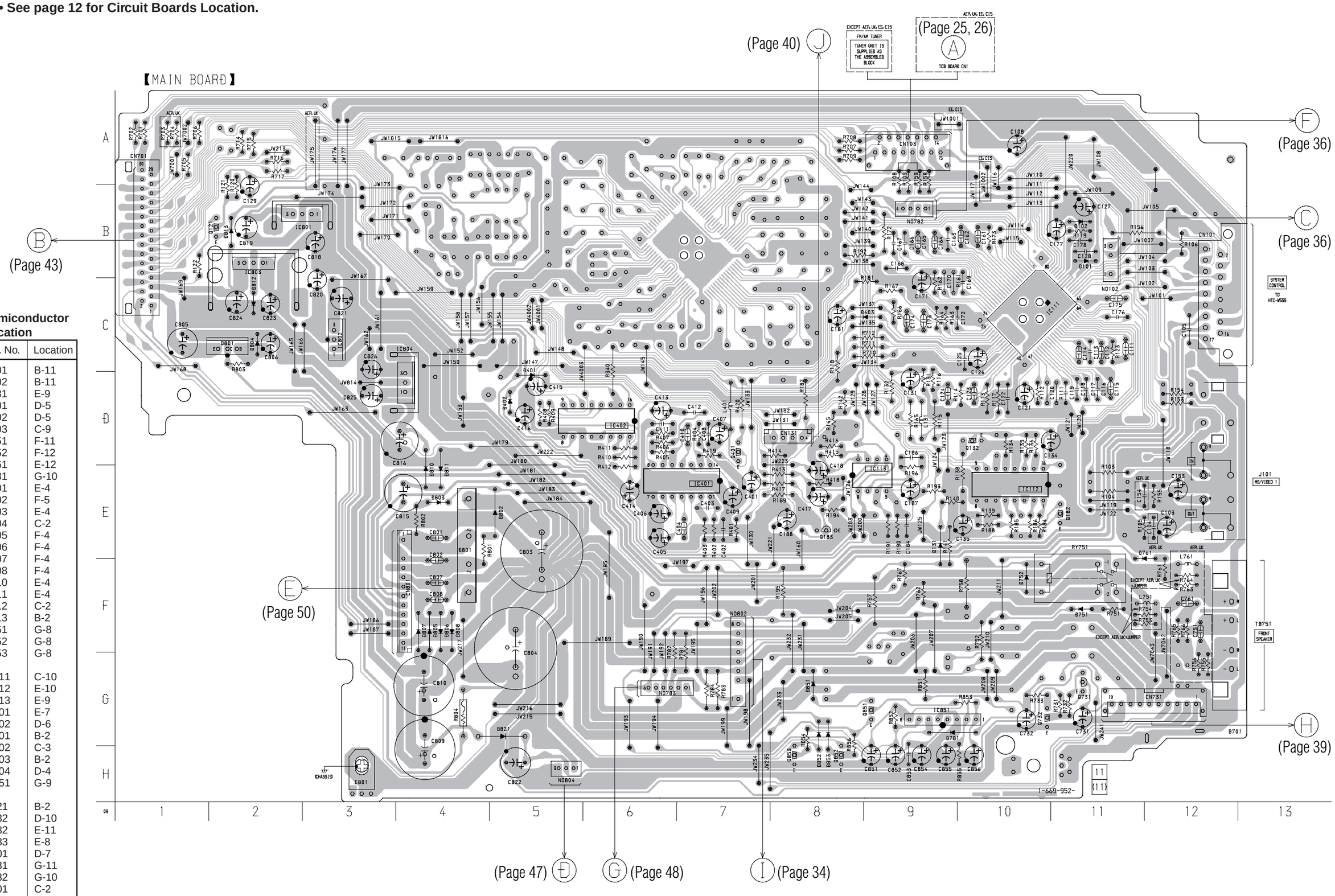
5-6. SCHEMATIC DIAGRAM – TUNER SECTION – (East European, CIS model)

- See page 14 for Waveforms.
- See page 53 for IC Block Diagrams.



5-7. PRINTED WIRING BOARD – MAIN SECTION –

• See page 12 for Circuit Boards Location.

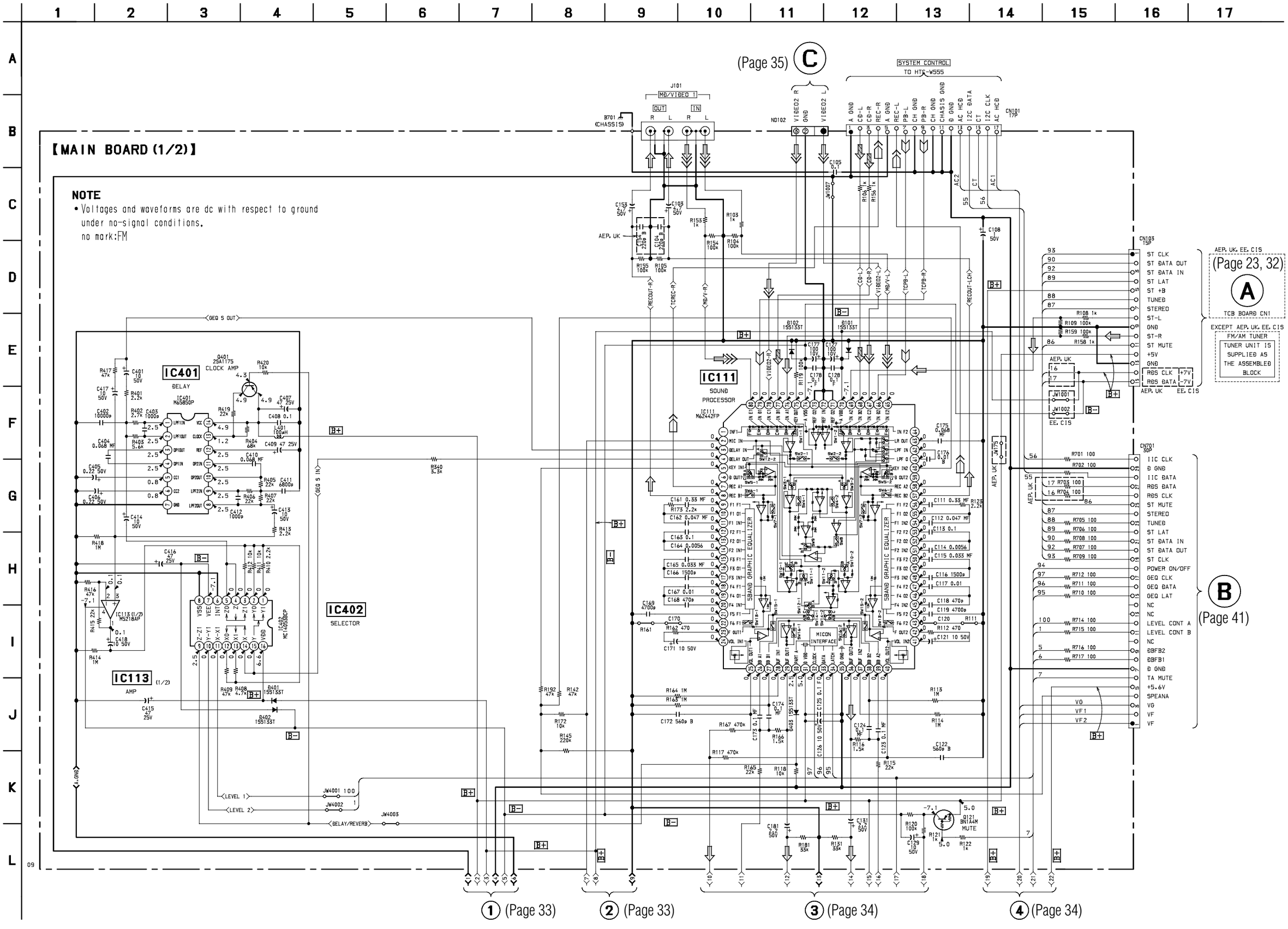


- **Semiconductor Location**

Ref. No.	Location
D101	B-11
D102	B-11
D131	E-9
D401	D-5
D402	D-5
D403	C-9
D751	F-11
D752	F-12
D761	E-12
D781	G-10
D801	E-4
D802	F-5
D803	E-4
D804	C-2
D805	F-4
D806	F-4
D807	F-4
D808	F-4
D810	E-4
D811	E-4
D812	C-2
D813	B-2
D851	G-8
D852	G-8
D853	G-8
IC111	C-10
IC112	E-10
IC113	E-9
IC401	E-7
IC402	D-6
IC801	B-2
IC802	C-3
IC803	B-2
IC804	D-4
IC851	G-9
Q121	B-2
Q132	D-10
Q182	E-11
Q183	E-8
Q401	D-7
Q731	G-11
Q732	G-10
Q801	C-2
Q851	G-9
Q852	H-8
Q853	H-8

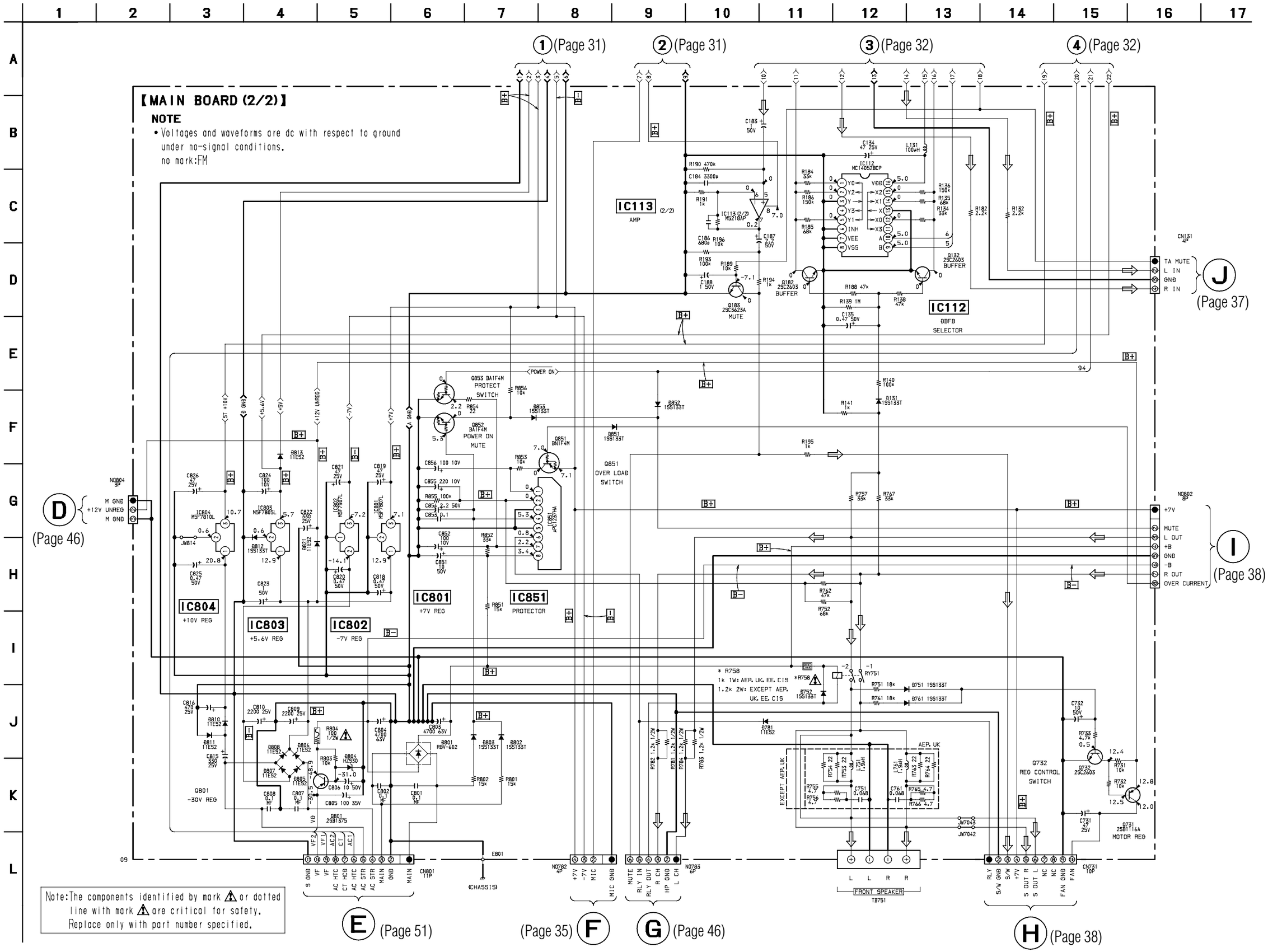
5-8. SCHEMATIC DIAGRAM – MAIN (1/2) SECTION –

• See page 54 for IC Block Diagrams.



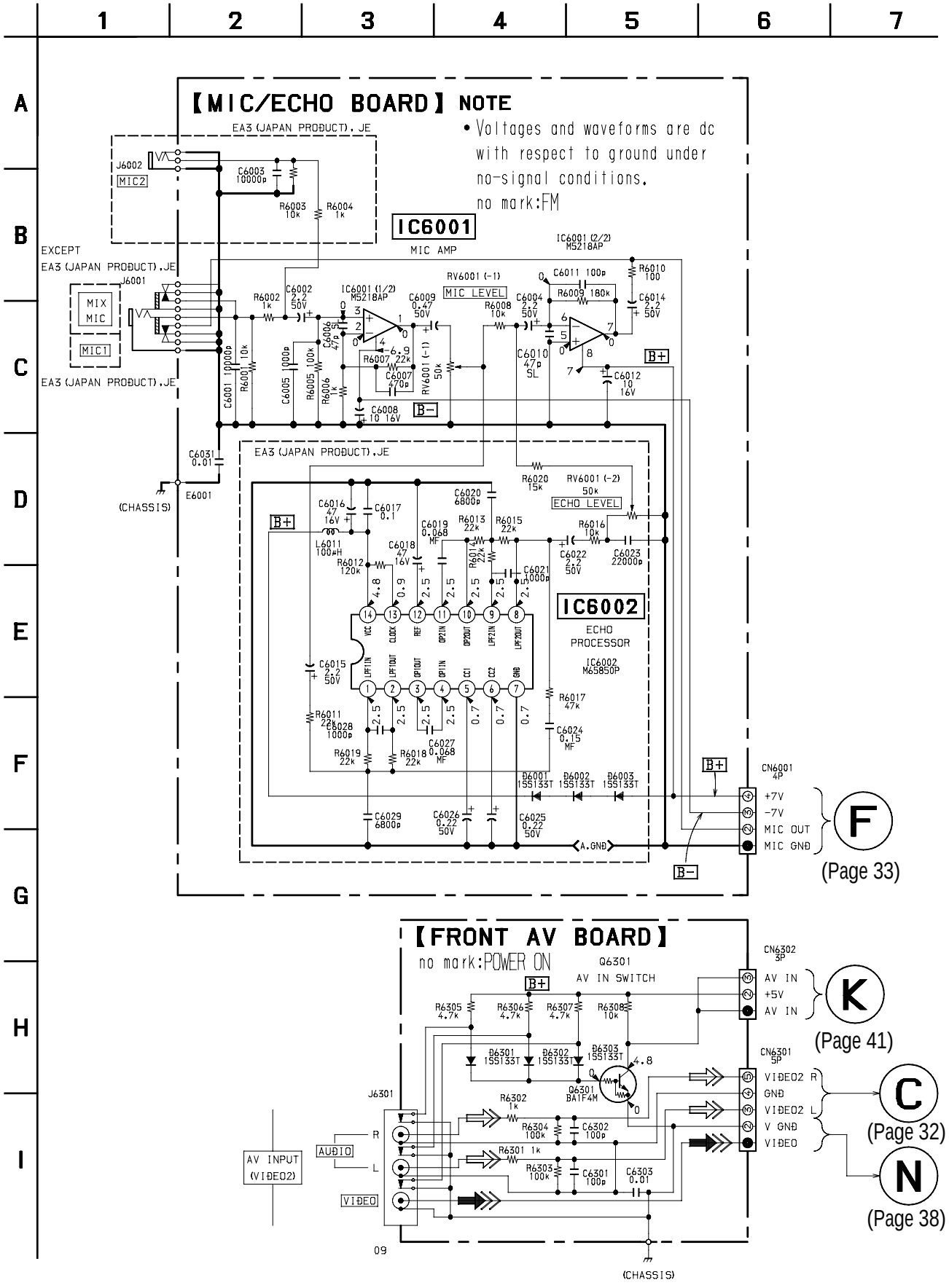
5-9. SCHEMATIC DIAGRAM – MAIN (2/2) SECTION –

- See page 29 for Printed Wiring Board.
- See page 54 for IC Block Diagrams.



5-10. SCHEMATIC DIAGRAM – AV/MIC SECTION –

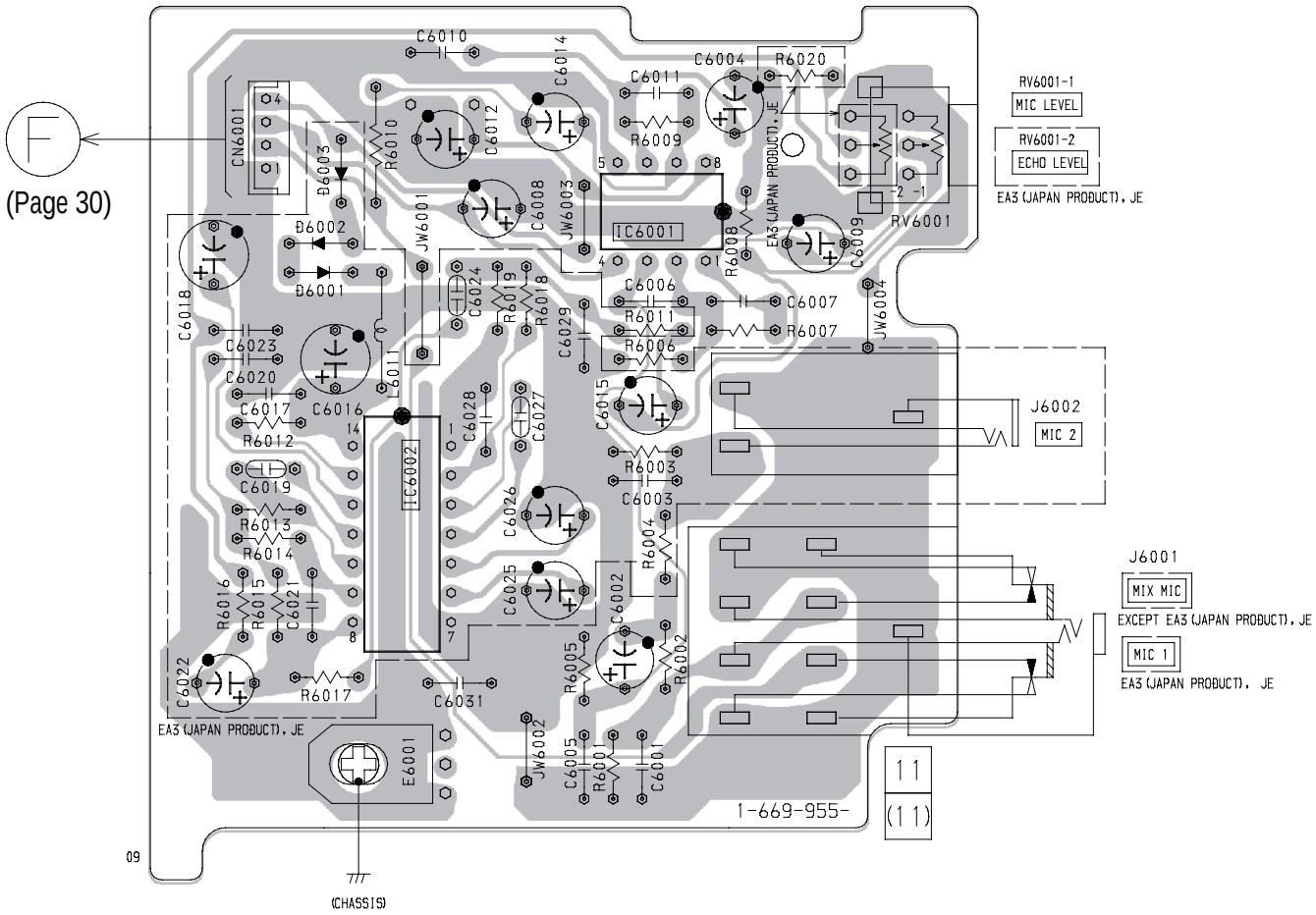
• See page 54 for IC Block Diagrams.



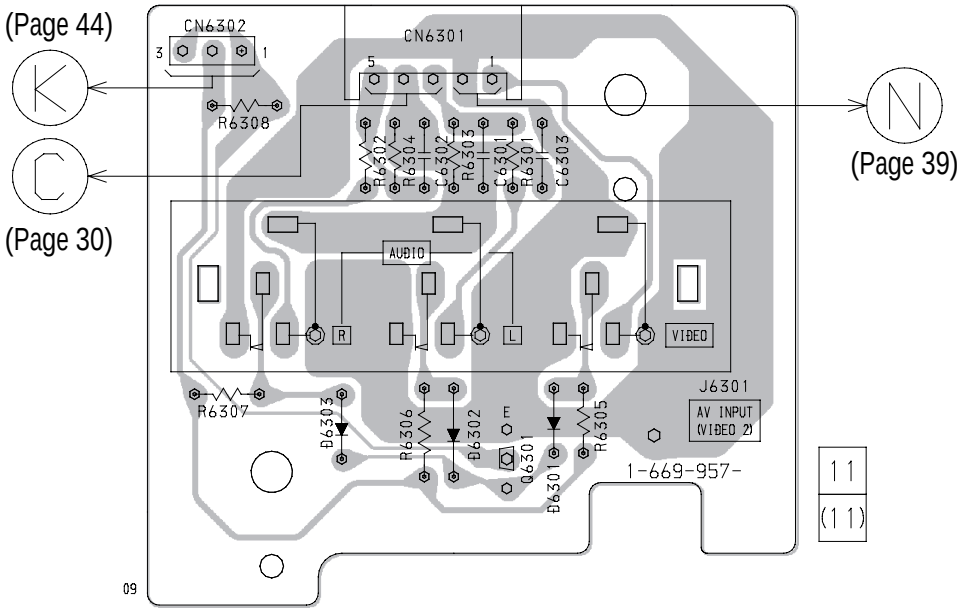
5-11. PRINTED WIRING BOARD – AV/MIC SECTION –

• See page 12 for Circuit Boards Location.

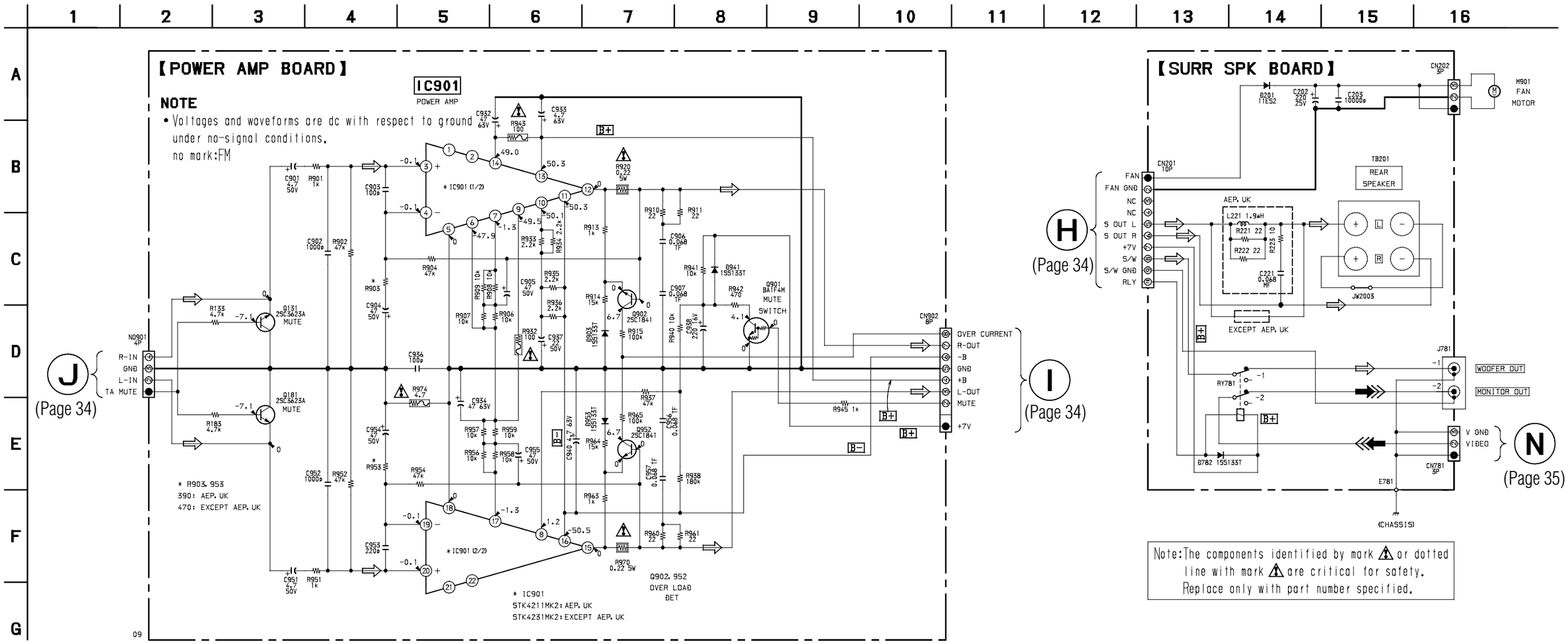
【MIC/ECHO BOARD】



【FRONT AV BOARD】



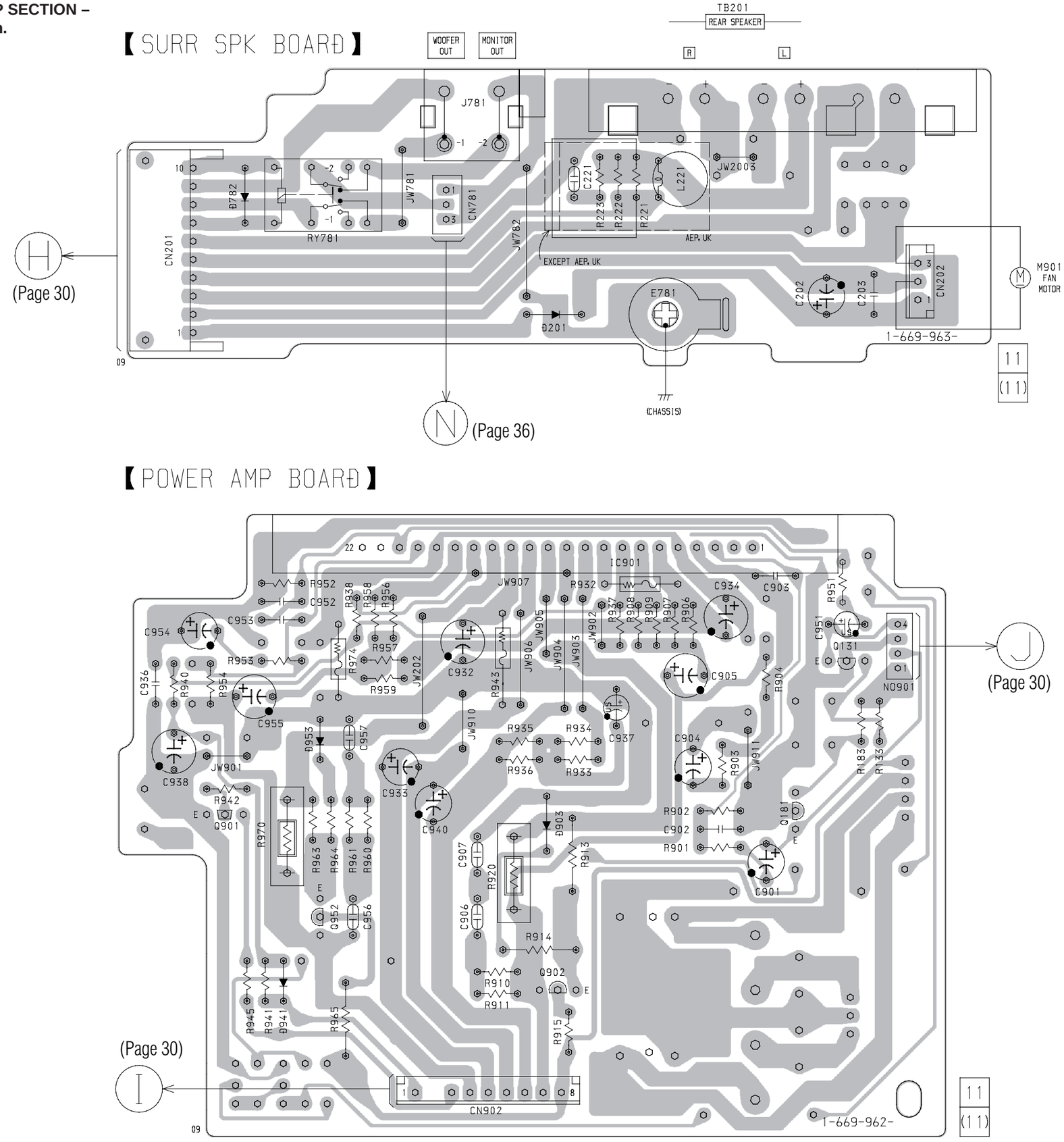
5-12. SCHEMATIC DIAGRAM – POWER AMP SECTION –



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

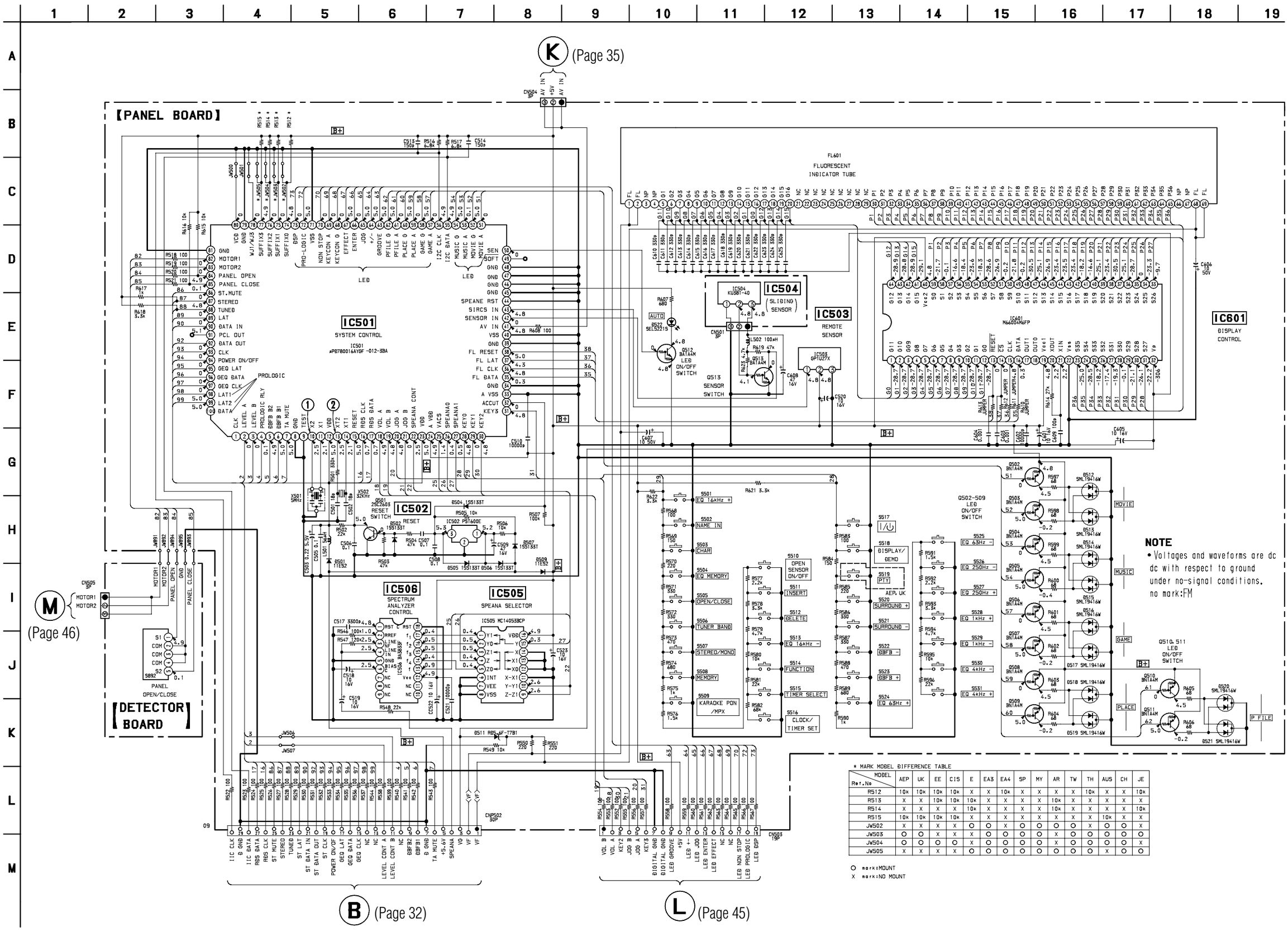
5-13. PRINTED WIRING BOARD – POWER AMP SECTION –

• See page 12 for Circuit Boards Location.



5-12. SCHEMATIC DIAGRAM – DISPLAY SECTION –

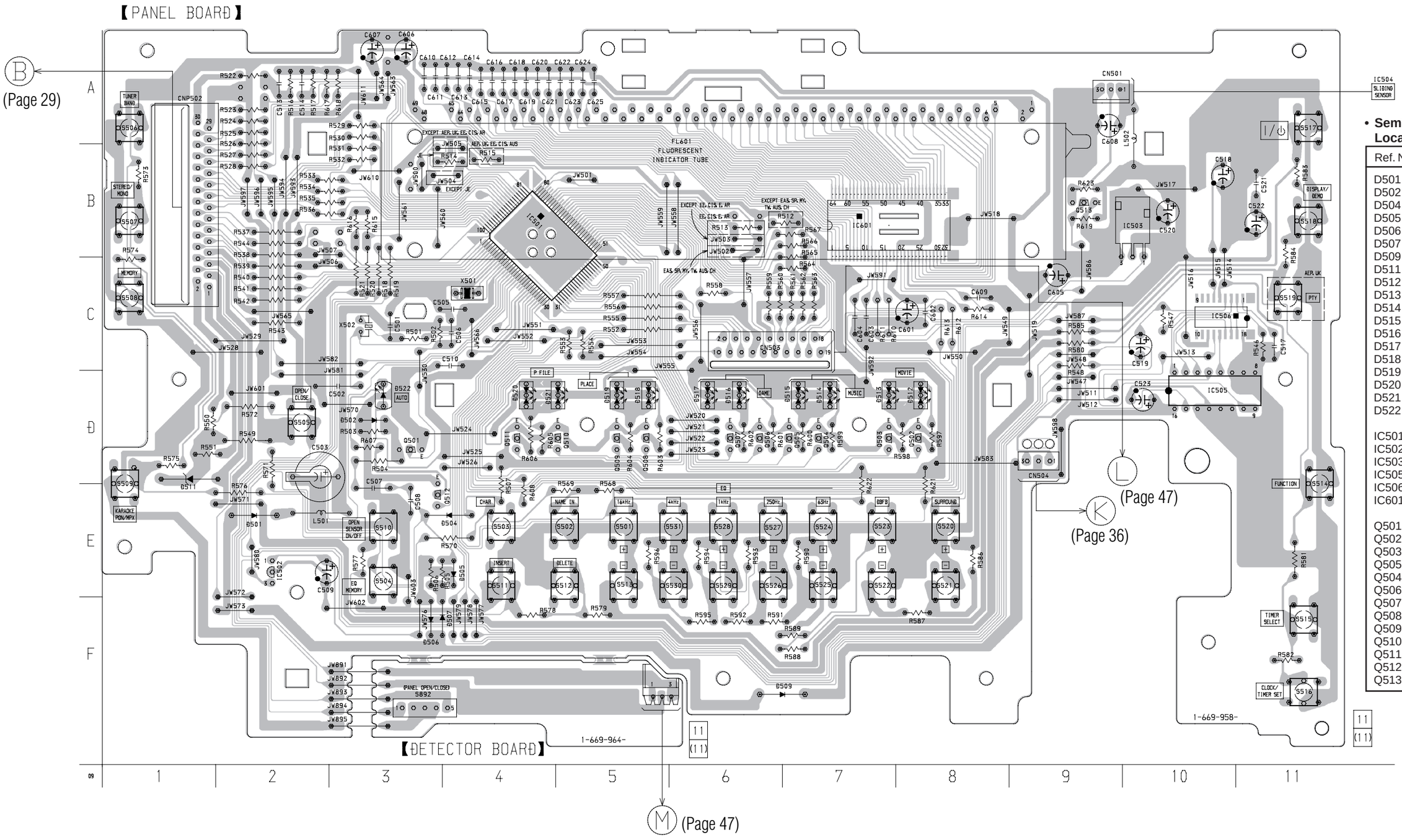
• See page 54 for IC Block Diagrams.



Ref.No \ MODEL	AEP	UK	EE	CIS	E	EA3	EA4	SP	MY	AR	TW	TH	AUS	CH	JE
R512	10k	10k	10k	10k	X	X	10k	X	X	X	10k	X	X	X	10k
R513	X	X	10k	10k	10k	X	X	X	X	10k	X	X	X	X	X
R514	X	X	X	X	10k	X	X	X	X	10k	X	X	X	X	10k
R515	10k	10k	10k	10k	X	X	X	X	X	X	X	X	10k	X	X
JW502	X	X	X	X	○	○	X	○	○	○	○	X	○	○	X
JW503	○	○	X	X	X	○	○	○	○	X	○	○	○	○	○
JW504	○	○	○	○	X	○	○	○	○	X	○	○	○	○	X
JW505	X	X	X	X	○	○	○	○	○	○	○	○	X	○	○

5-15. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 12 for Circuit Boards Location.

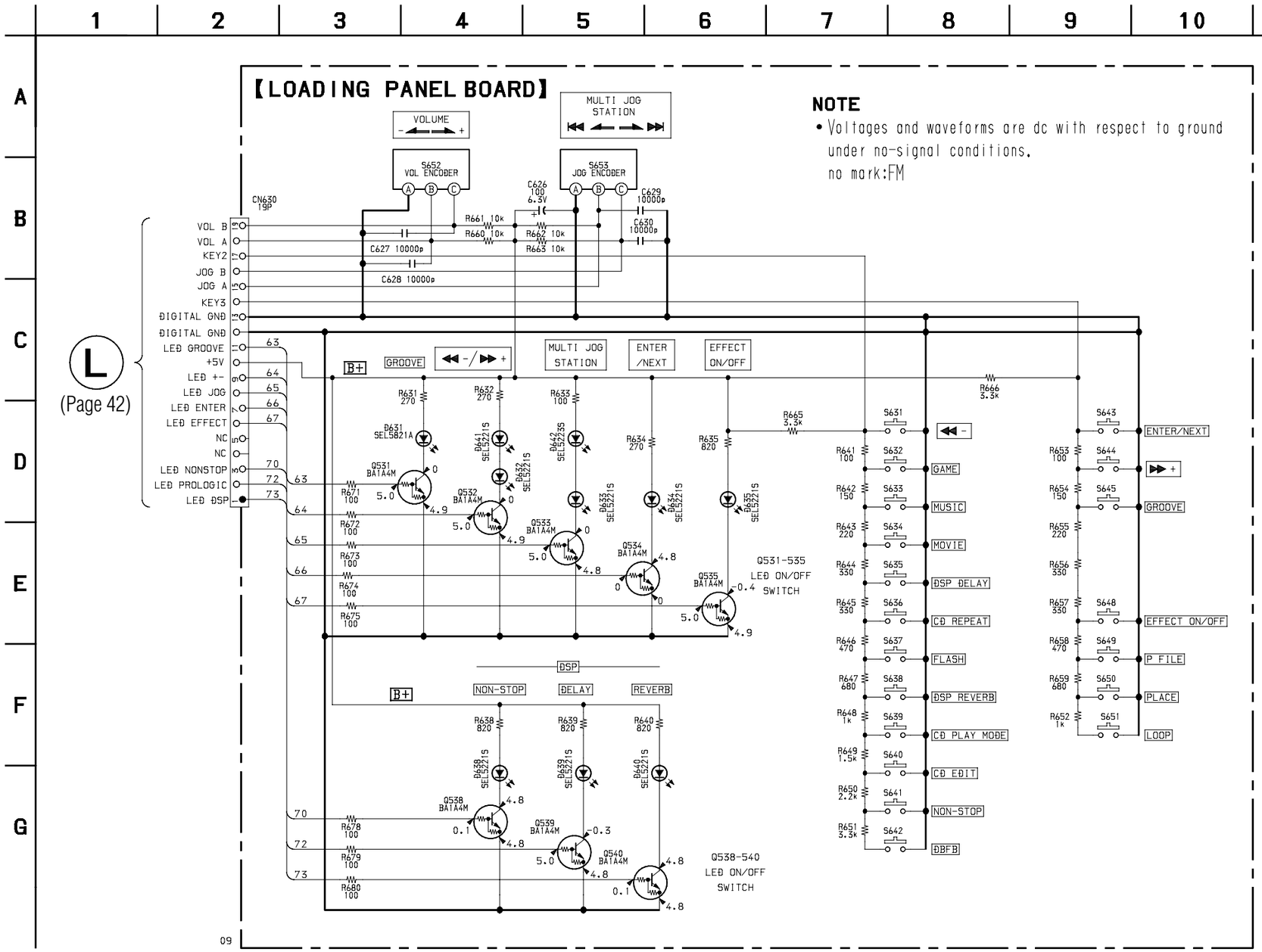


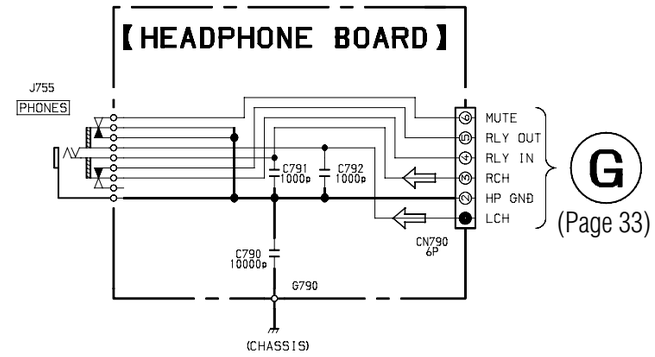
- **Semiconductor Location**

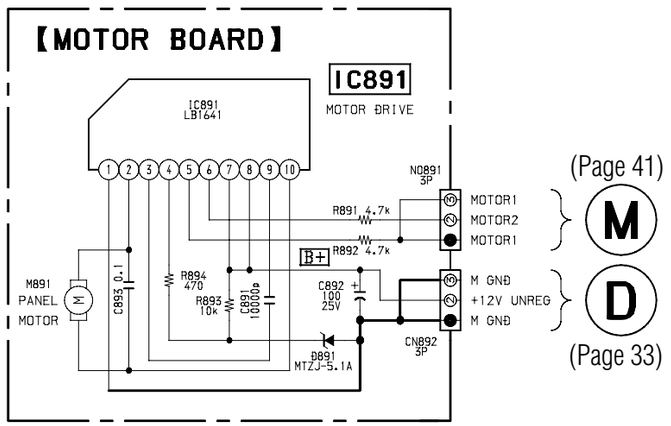
Ref. No.	Location
D501	E-2
D502	D-3
D504	E-4
D505	F-4
D506	F-3
D507	F-3
D509	F-6
D511	D-1
D512	D-8
D513	D-7
D514	D-7
D515	D-7
D516	D-6
D517	D-6
D518	D-5
D519	D-5
D520	D-4
D521	D-5
D522	D-3
IC501	B-4
IC502	E-2
IC503	B-10
IC505	D-10
IC506	C-10
IC601	B-7
Q501	D-3
Q502	D-8
Q503	D-7
Q505	D-7
Q504	D-7
Q506	D-6
Q507	D-6
Q508	D-5
Q509	D-5
Q510	D-5
Q511	D-4
Q512	E-3
Q513	B-9

5-16. SCHEMATIC DIAGRAM – SLIDING PANEL SECTION –

• See page 54 for IC Block Diagrams.



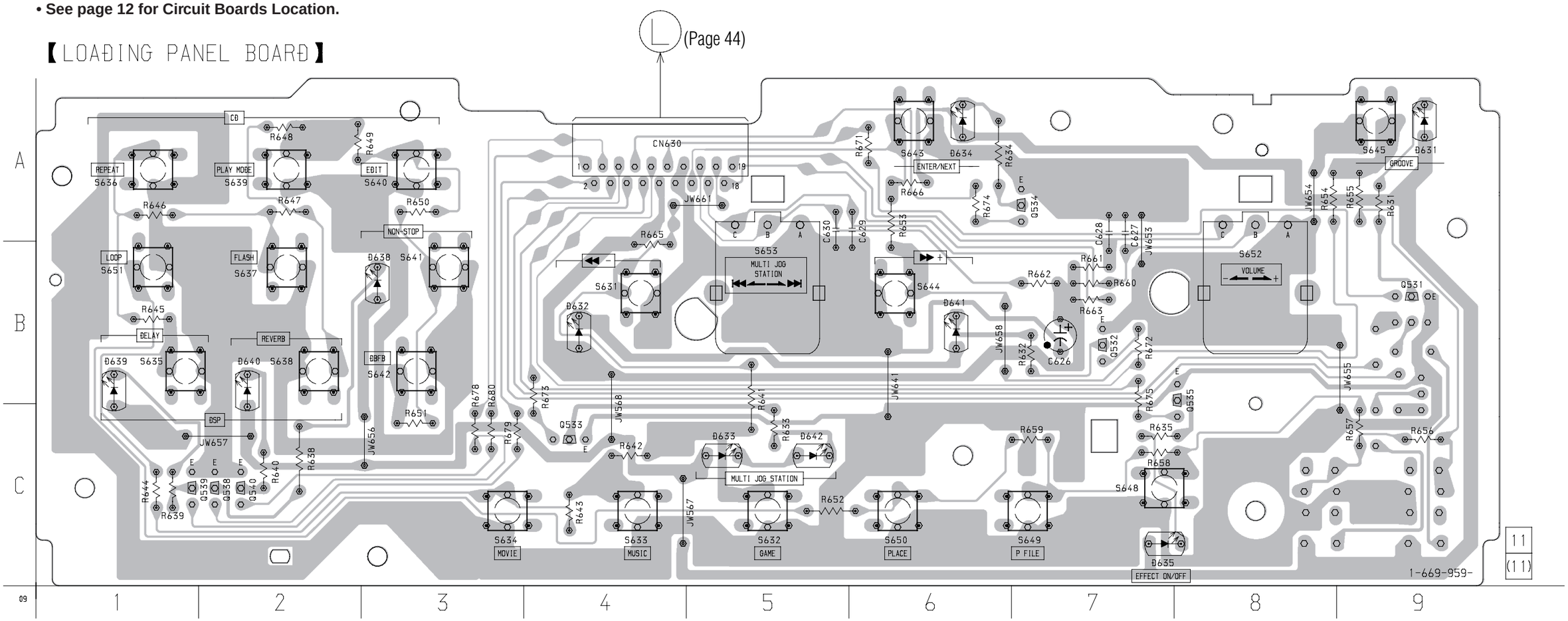




5-17. PRINTED WIRING BOARD – SLIDING PANEL SECTION –

• See page 12 for Circuit Boards Location.

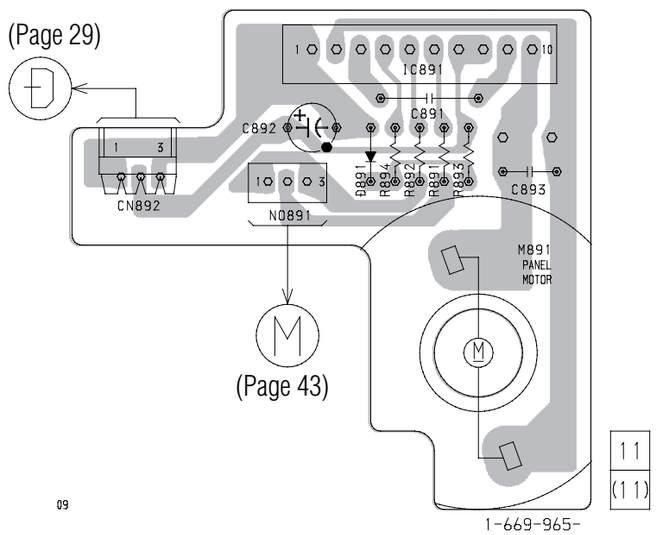
【LOADING PANEL BOARD】



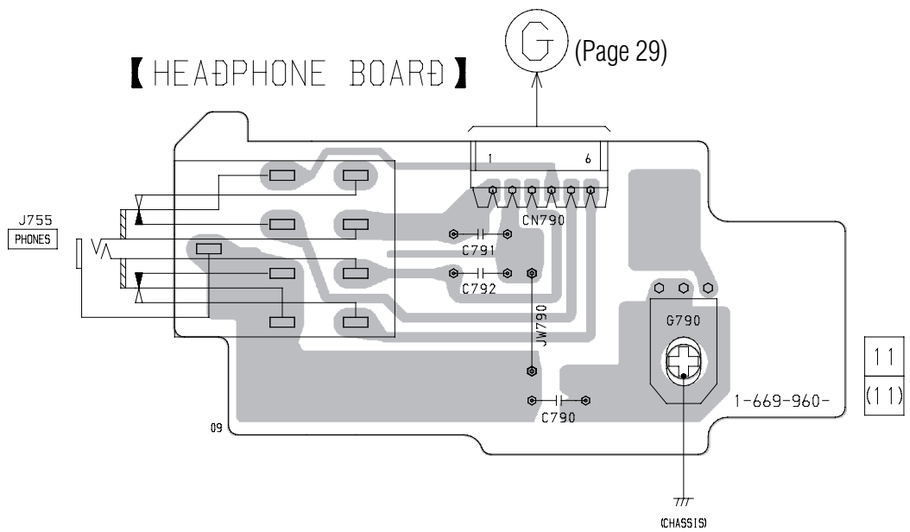
• **Semiconductor Location**

Ref. No.	Location
D631	A-9
D632	B-4
D633	C-5
D634	A-6
D635	C-7
D638	B-3
D639	B-1
D640	B-2
D641	B-6
D642	C-5
Q531	B-9
Q532	B-7
Q533	C-4
Q534	A-7
Q535	B-8
Q538	C-2
Q539	C-1
Q540	C-2

【MOTOR BOARD】

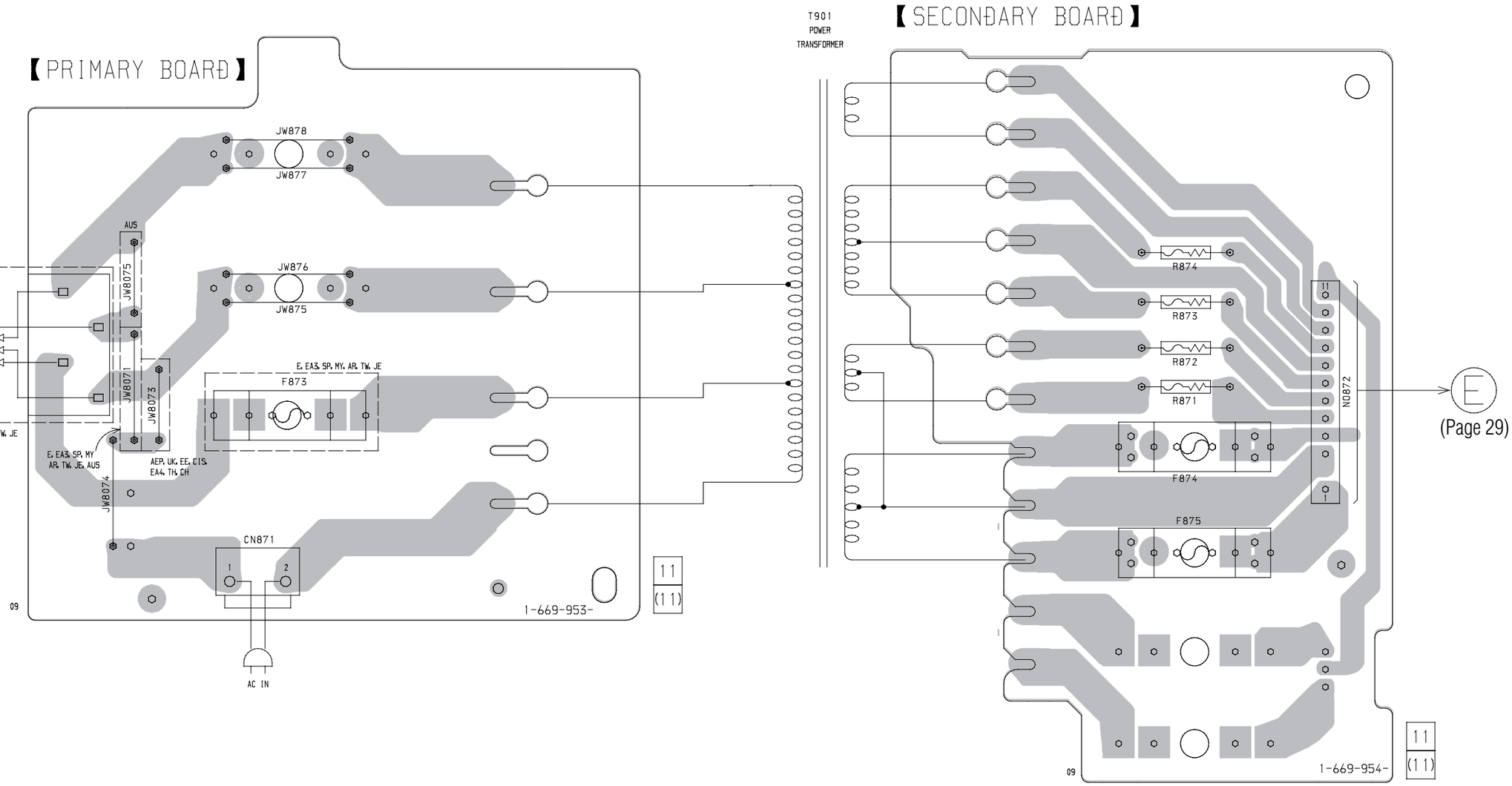


【HEADPHONE BOARD】

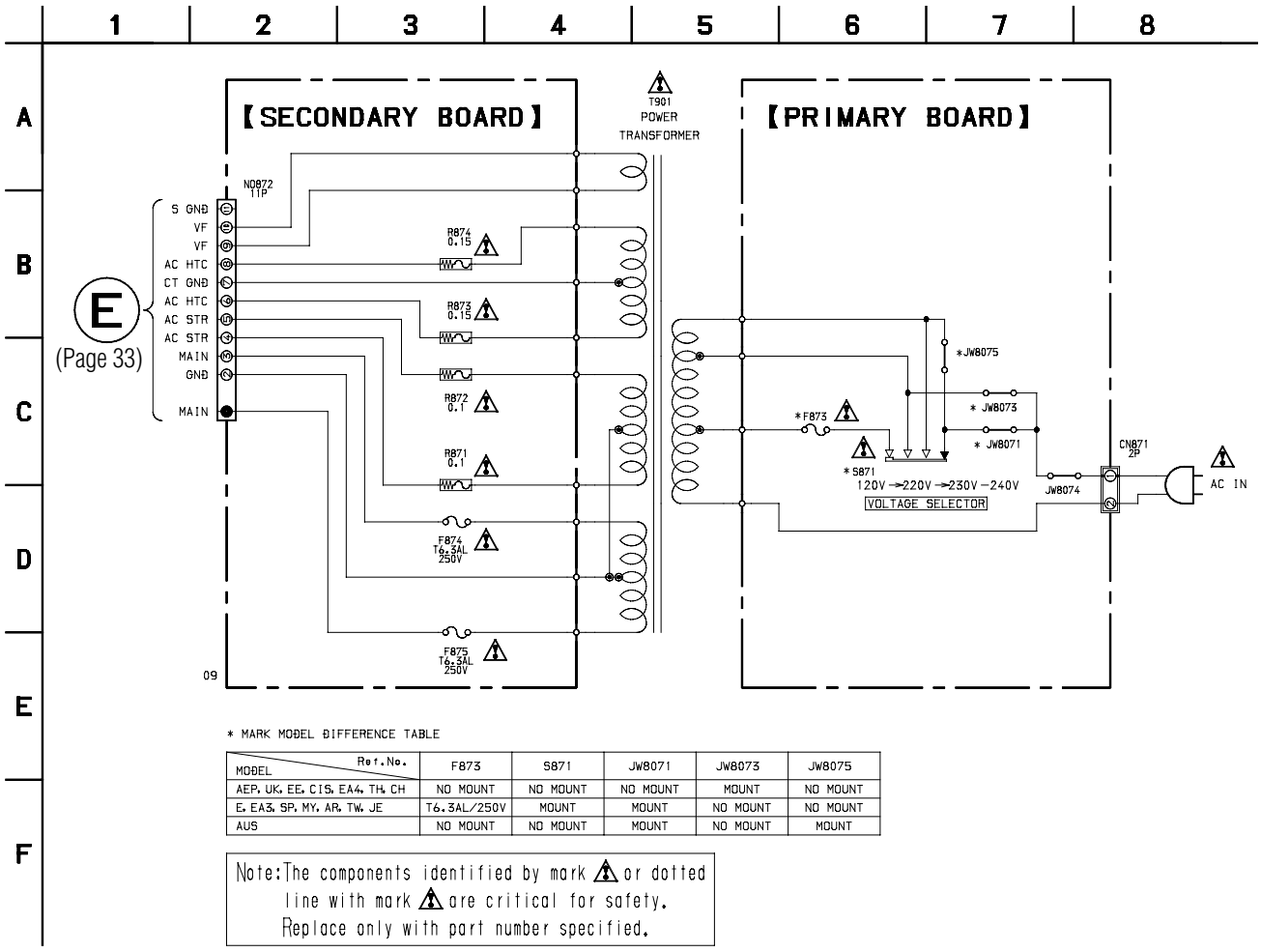


5-18. PRINTED WIRING BOARD – TRANS SECTION –

• See page 12 for Circuit Boards Location.



5-19. SCHEMATIC DIAGRAM – TRANS SECTION –



* MARK MODEL DIFFERENCE TABLE

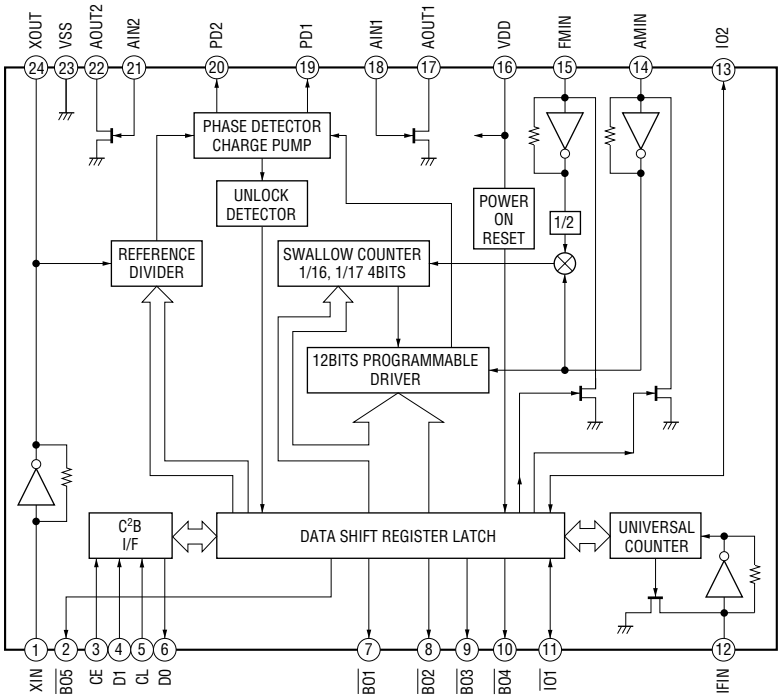
MODEL \ Ref.No.	F873	S871	JW8071	JW8073	JW8075
AEP, UK, EE, CIS, EA4, TH, CH	NO MOUNT	NO MOUNT	NO MOUNT	MOUNT	NO MOUNT
E, EA3, SP, MY, AR, TW, JE	T6.3AL/250V	MOUNT	MOUNT	NO MOUNT	NO MOUNT
AUS	NO MOUNT	NO MOUNT	MOUNT	NO MOUNT	MOUNT

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

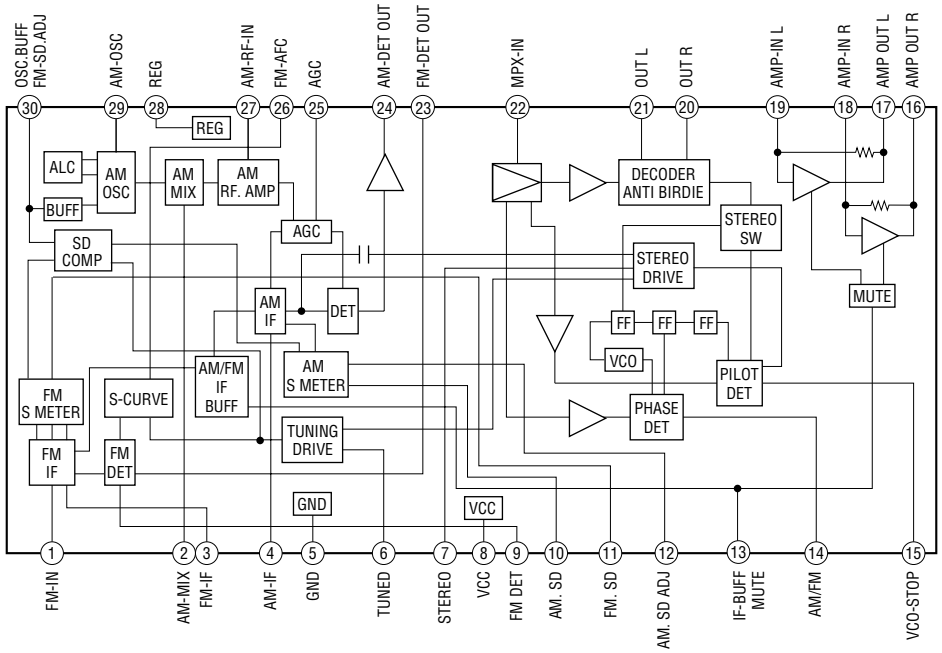
5-20. IC BLOCK DIAGRAMS

• Tuner section

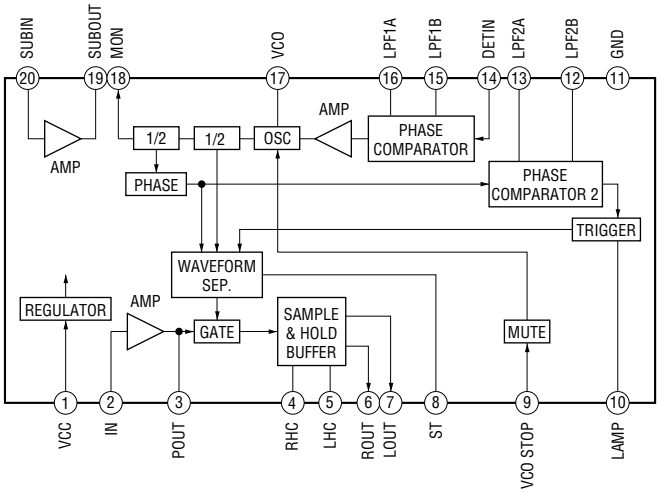
IC21 LC72130



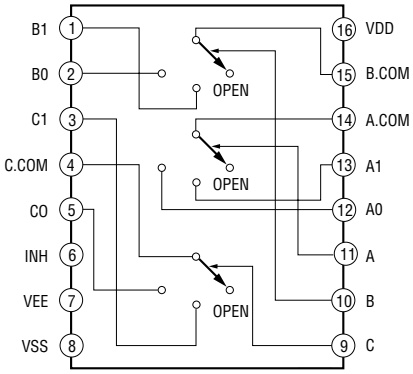
IC41 LA1838



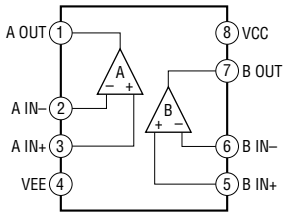
IC1701 IR3R42



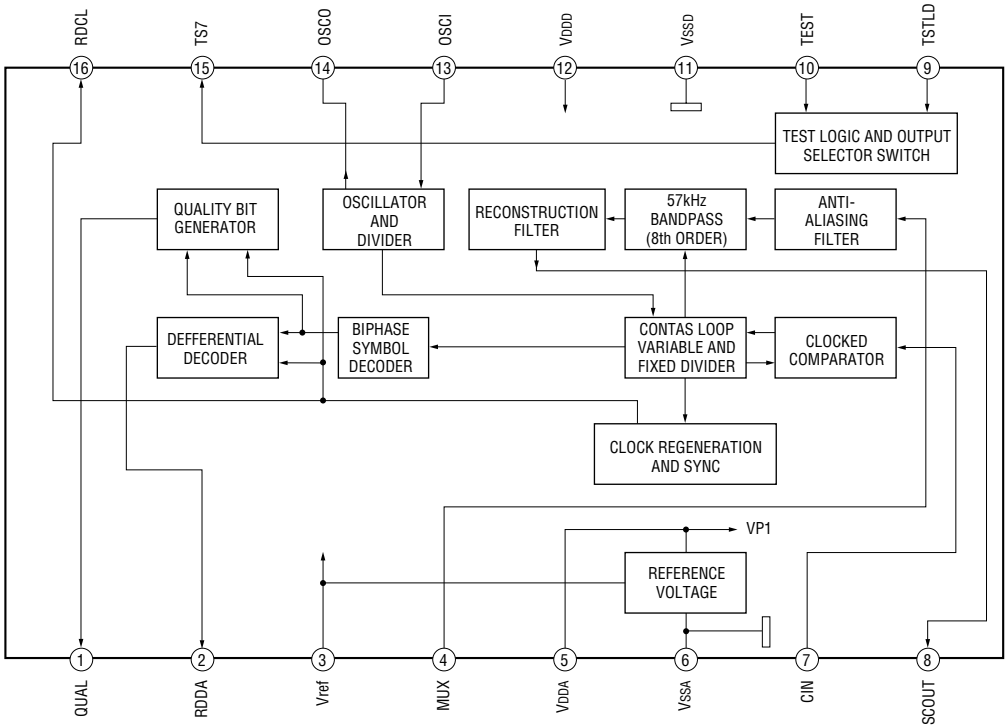
IC1702 MC14053BCP



IC1751 NJM4558D

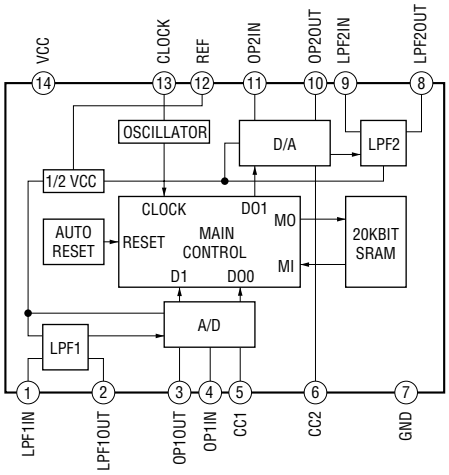


IC1752 BU1922

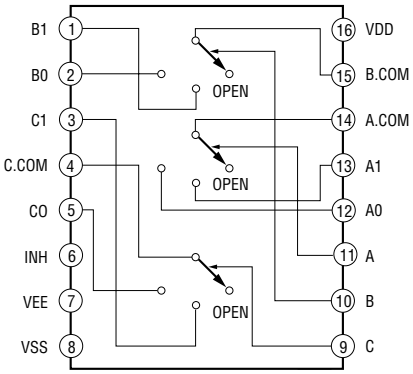


• **Main (1/2) section**

IC401 M65850P

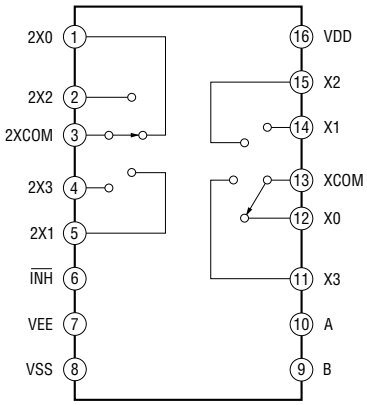


IC402 MC14053BCP

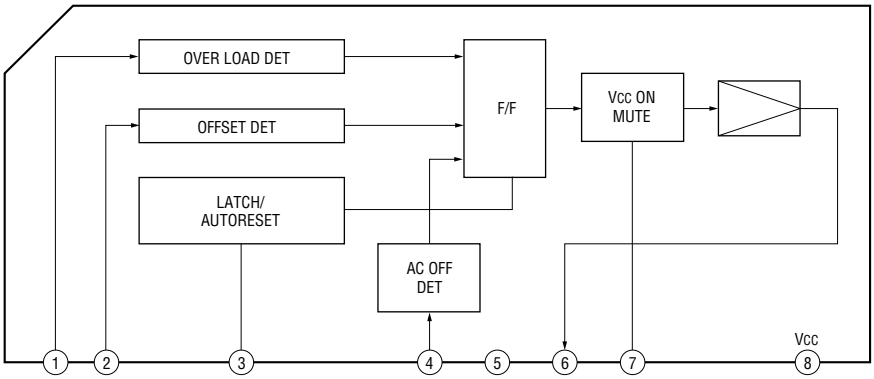


• **Main (2/2) section**

IC112 MC14052BCP

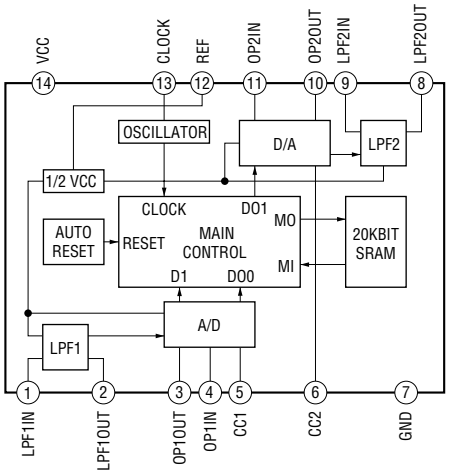


IC851 uPC1237HA



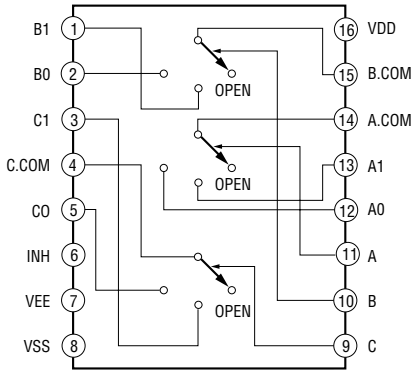
• **MIC/ECHO section**

IC6002 M65850P

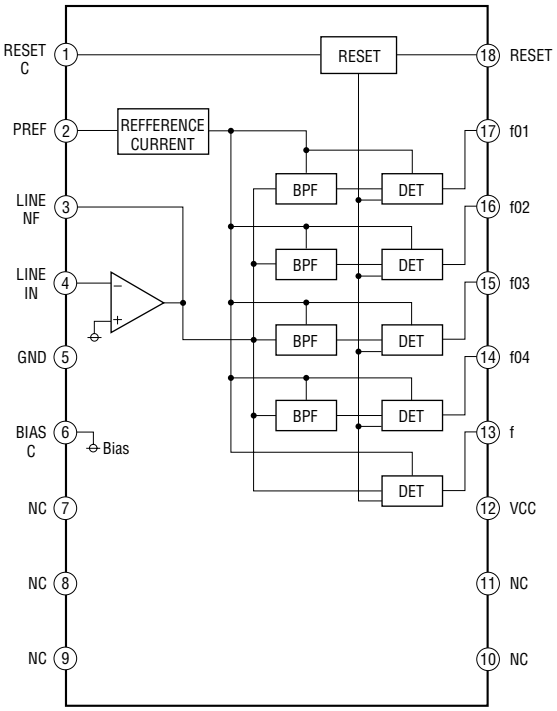


• **Display section**

IC505 MC14053BCP

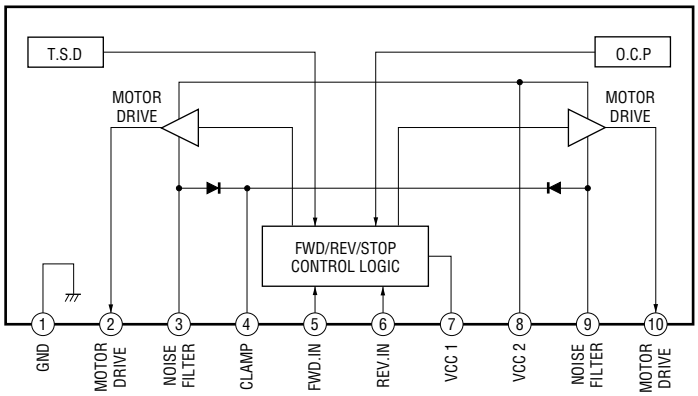


IC506 BA3833F



• **Panel/Motor section**

IC891 LB1641



5-21. IC PIN FUNCTION

• IC501 SYSTEM CONTROL (uPD780016AYGF-012-3BA)

Pin No.	Pin Name	I/O	Function
1	CLK	O	Not used
2	LEVEL A	O	Surround level A signal output
3	LEVEL B	O	Surround level B signal output
4	PROLOGIC RLY	O	Not used
5	DBFB B2	O	DBFB level 2 signal output
6	DBFB B1	O	DBFB level 1 signal output
7	TA MUTE	O	Mute signal output
8	GND	—	Ground
9	TEST	—	Test terminal (Connected to ground)
10	X2	O	X’tal (5MHz)
11	X1	I	
12	VDD	—	Power supply (+5V)
13	XT2	O	X’tal (32kHz)
14	XT1	I	
15	RESET	I	Reset signal input
16	RDS CLK	I	RDS clock input
17	RDS DATA	I	RDS data input
18	VOL A	I	Rotary encoder (VOLUME) pulse input
19	VOL B	I	
20	JOG A	I	Rotary encoder (MULTI JOG STATION) pulse input
21	JOG B	I	
22	SPEANA CONT	O	Spectrum analyzer control output
23	VDD	—	Power supply (+5V)
24	A VDD	—	Analog power supply (+5V)
25	VACS	I	Audio input for VACS control
26	SPEANA0	I	Spectrum analyzer data input
27	SPEANA1	I	
28	KEY0	I	Key data input
29	KEY1	I	
30	KEY2	I	
31	KEY3	I	
32	ACCUT	I	Back up signal input
33	A VSS	—	Analog ground
34	GND	—	Ground
35	FL DATA	O	FL data output
36	FL CLK	O	FL clock output
37	FL LAT	O	FL latch output
38	FL RESET	O	FL reset output
39	GND	—	Ground
40	VSS	—	Ground

• Abbreviation
FL : Fluorescent indicator tube

Pin No.	Pin Name	I/O	Function
41	AV IN	I	AV INPUT (VIDEO 2) switch input
42	SENSOR IN	I	Sliding (panel) sensor signal input
43	SIRCS IN	I	Remote sensor signal input
44	SPEANE RST	O	Spectrum analyzer reset output
45	GND	—	Ground
46	GND	—	
47	GND	—	
48	GND	—	
49	SOFT	O	Soft test terminal
50	SEN	O	Auto indicator output
51	MOVIE A	O	LED driver output
52	MOVIE G	O	
53	MUSIC A	O	
54	MUSIC G	O	
55	I2C DATA	I/O	Serial data input/output
56	I2C CLK	I/O	Serial clock input/output
57	GAME A	O	LED driver output
58	GAME G	O	
59	PLACE A	O	
60	PLACE G	O	
61	PFILE A	O	
62	PFILE G	O	
63	GROOVE	O	
64	+/–	O	
65	JOG	O	
66	ENTER	O	
67	EFECT	O	
68	KEYCON G	O	Not used
69	KEYCON A	O	
70	NON STOP	O	LED driver output
71	VSS	—	Ground
72	DELAY	O	LED driver output
73	REVER B	O	
74	SUFFIX0	I	Destination terminal
75	SUFFIX1	I	
76	SUFFIX2	I	
77	SUFFIX3	I	
78	WJ1/WJ3	I	Model select terminal
79	GND	—	Ground
80	VCD	I	VCD select terminal “L”: NON-VCD (Connected to ground)

Pin No.	Pin Name	I/O	Function
81	GND	–	Ground
82	MOTOR1	O	Panel motor contol output
83	MOTOR2	O	
84	PANEL OPEN	O	Panel open switch output
85	PANEL CLOSE	O	Panel close switch output
86	ST.MUTE	O	ST mute signal output
87	STEREO	I	Stereo detection input for tuner
88	TUNED	I	Tuned detection input for tuner
89	LAT	O	Tuner PLL latch output
90	DATA IN	I	Tuner PLL data input
91	PCL OUT	O	Sub clock output
92	DATA OUT	O	Tuner PLL data output
93	CLK	O	Tuner clock output
94	POWER ON/OFF	O	Power on/off control output
95	GEQ LAT	O	GEQ latch output
96	GEQ DATA	O	GEQ data output
97	GEQ CLK	O	GEQ clock output
98	LAT1	O	Not used
99	LAT2	O	
100	DATA	O	

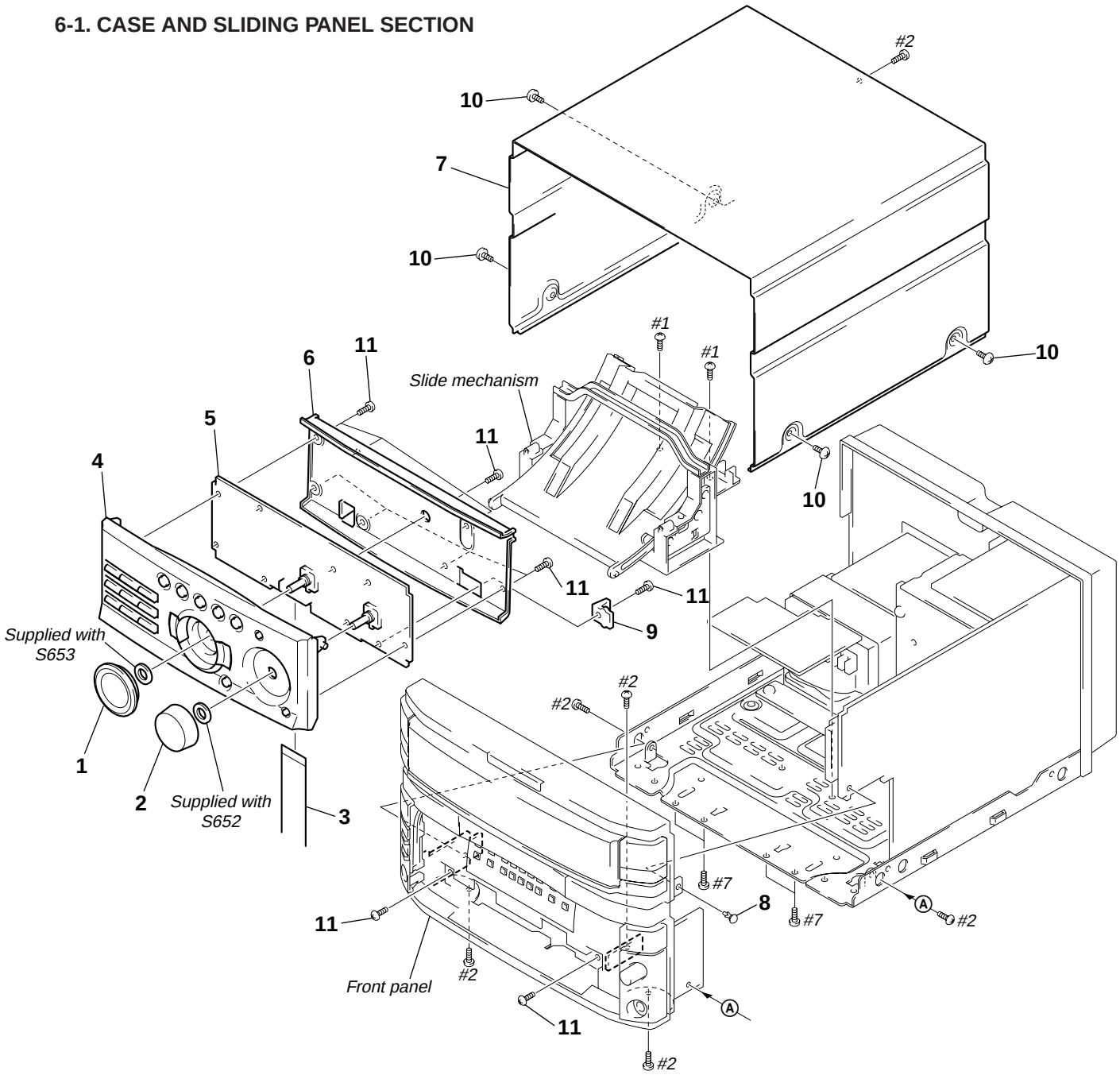
• Abbreviation
GEQ : Graphic Equalizer
PLL : Phase Locked Loop

SECTION 6
EXPLODED VIEWS

NOTE:
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  EE : East European model.
  EA3 : Saudi Arabia model
  EA4 : Israel model
  SP : Singapore model.
  MY : Malaysia model.
  TW : Taiwan model
  AUS : Australian model.
  CH : Chinese model
  AR : Argentine model
  JE : Tourist model
  TH : Thai model.

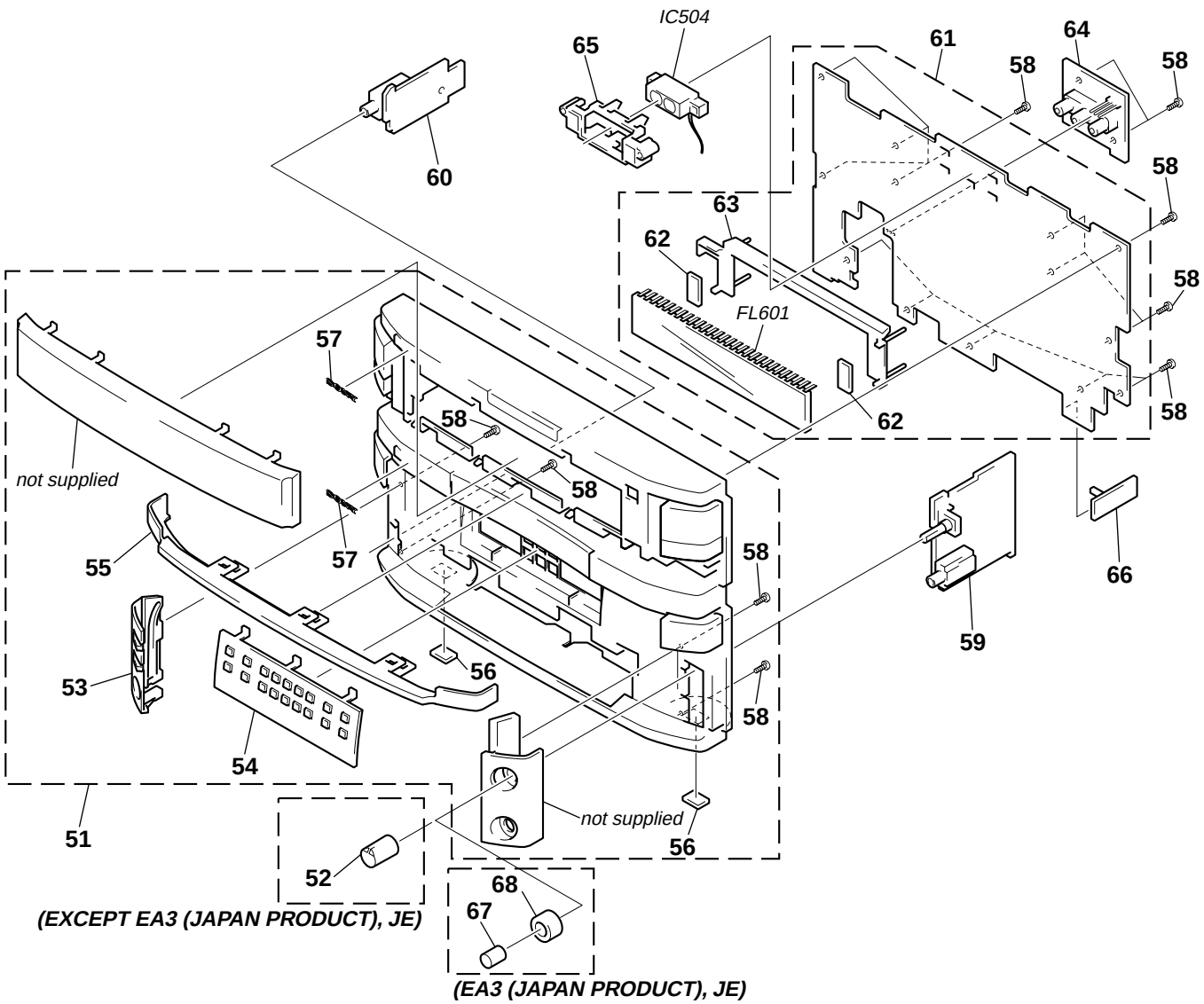
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CASE AND SLIDING PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-900-825-01	KNOB (JOG)	
2	4-900-826-01	KNOB (VOLUME)	
3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)	
4	X-4949-996-1	SLIDING PANEL SUB ASSY	
* 5	1-669-959-11	LOADING PANEL BOARD	
6	4-900-855-01	COVER	
* 7	4-900-858-01	CASE	
8	3-531-576-11	RIVET	
* 9	4-900-852-01	HOLDER LEVEL	
10	3-363-099-01	SCREW (CASE 3 TP2)	
11	4-951-620-01	SCREW (2.6X8), +BVTP	

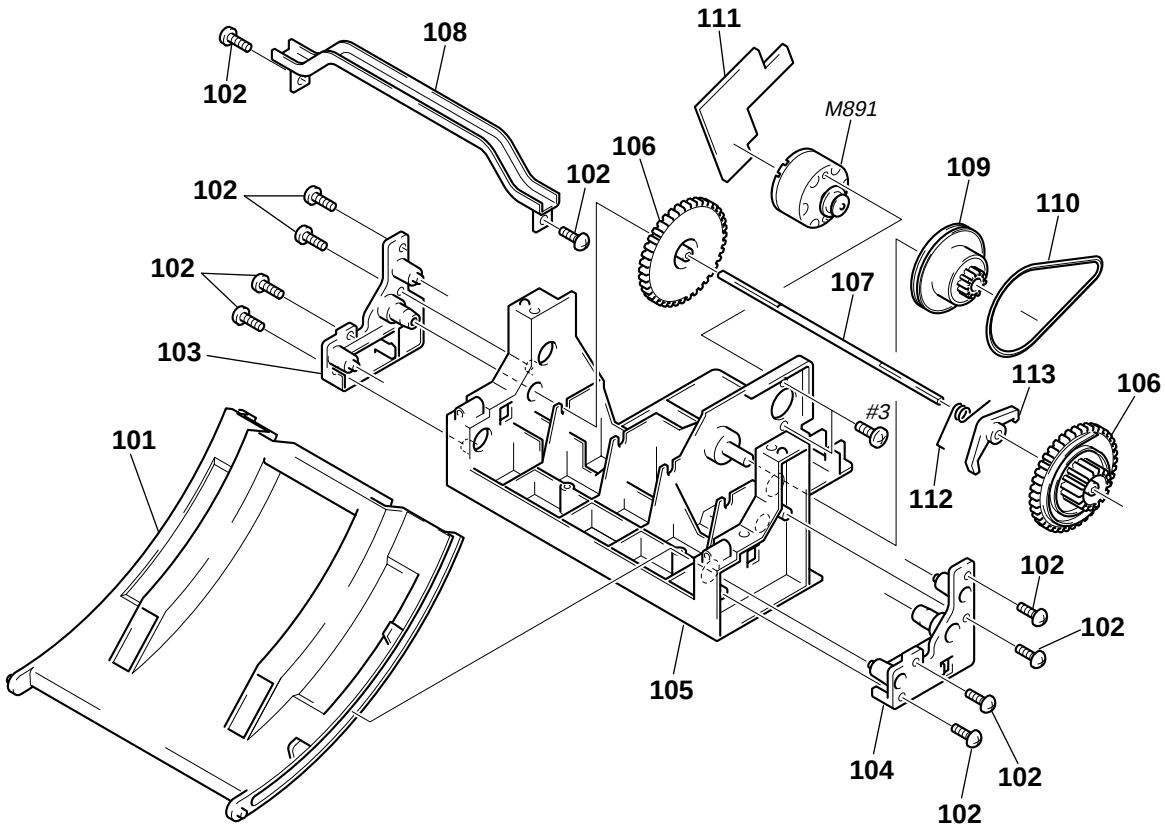
6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-4949-992-1	FRONT PANEL ASSY (E,EA3,EA4,SP,MY,AR,TW,TH,AUS,CH)	
51	X-4950-003-1	FRONT PANEL ASSY (AEP,UK,EE,CIS)	
51	X-4950-247-1	FRONT PANEL ASSY (EA3(Japan Product),JE)	
52	4-900-832-01	KNOB (MIC)(EXCEPT EA3(Japan Product),JE)	
53	X-4949-993-1	ESCUTCHEON (L) ASSY	
54	X-4949-994-1	ESCUTCHEON (EQ) ASSY	
55	X-4950-002-1	ESCUTCHEON (ST) ASSY (AEP,UK,EE,CIS)	
56	4-977-358-11	CUSHION	
57	4-962-708-11	EMBLEM (4-A), SONY	
58	4-951-620-01	SCREW (2.6X8), +BVTP	
* 59	A-4414-202-A	MIC/ECHO BOARD, COMPLETE (EXCEPT EA3(Japan Product),JE)	
* 59	A-4414-718-A	MIC/ECHO BOARD, COMPLETE (EA3(Japan Product),JE)	
* 60	1-669-960-11	HEADPHONE BOARD	
* 61	A-4414-196-A	PANEL BOARD, COMPLETE (AEP,UK)	
* 61	A-4414-212-A	PANEL BOARD, COMPLETE (EA3(Malaysia Product),SP,MY,TW,CH)	

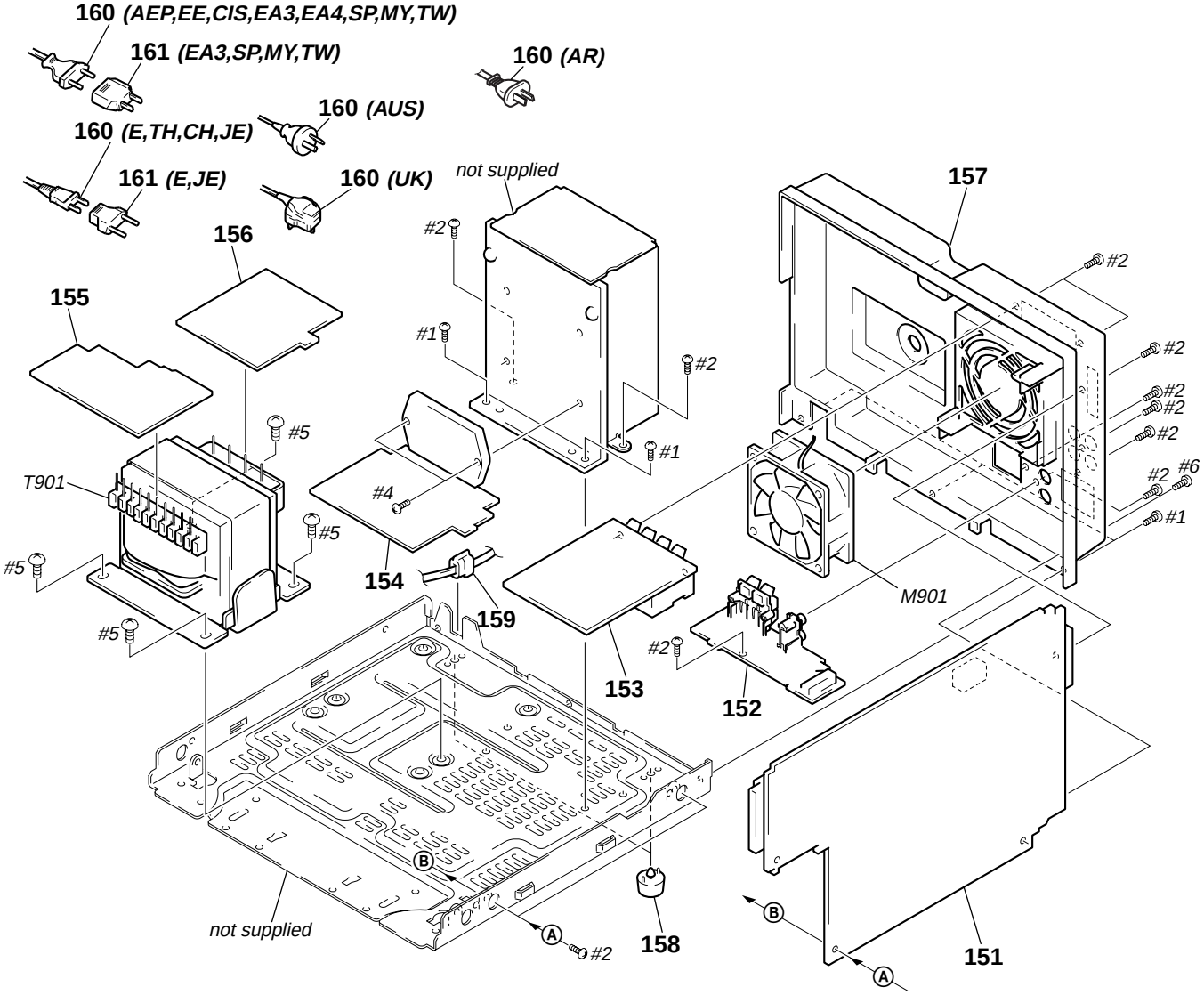
Ref. No.	Part No.	Description	Remark
* 61	A-4414-544-A	PANEL BOARD, COMPLETE (E,AR)	
* 61	A-4414-547-A	PANEL BOARD, COMPLETE (AUS)	
* 61	A-4414-551-A	PANEL BOARD, COMPLETE (EE,CIS)	
* 61	A-4414-746-A	PANEL BOARD, COMPLETE (JE)	
* 61	A-4414-754-A	PANEL BOARD, COMPLETE (EA3(Japan Product))	
* 61	A-4414-793-A	PANEL BOARD, COMPLETE (EA4,TH)	
* 62	4-932-810-11	CUSHION (FL)	
* 63	4-900-849-01	HOLDER (FL)	
* 64	1-669-957-11	FRONT AV BOARD	
* 65	4-210-042-01	BRACKET (SENSOR)	
* 66	1-669-964-11	DETECTOR BOARD	
67	4-900-868-01	KNOB (CENTER)	
68	4-900-867-01	KNOB (CONTROL)	
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT	
IC504	8-719-070-85	DIODE KU381-40	

6-3. SLIDE MECHANISM SECTION



Ref. No.	Part No.	Description	Remark
101	4-900-844-01	LEVEL SLIDER	
102	4-951-620-01	SCREW (2.6X8), +BVTP	
103	X-4950-394-1	HOLDER (L) ASSY	
104	X-4950-395-1	HOLDER (R) ASSY	
105	4-900-845-01	BRACKET SLIDER	
106	4-900-846-01	GEAR (1)	
107	4-900-862-01	SHAFT CENTER	
108	4-900-864-01	BRACKET TOP	
109	4-900-847-01	GEAR (2)	
110	3-344-059-01	BELT (L)	
* 111	1-669-965-11	MOTOR BOARD	
112	4-212-966-01	SPRING LEVEL	
113	4-212-965-01	STOPPER LEVEL	
M891	A-4660-926-A	MOTOR (CDM) ASSY	

6-4. CIRCUIT BOARDS AND BACK PANEL SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
* 151	A-4414-190-A	MAIN BOARD, COMPLETE (AEP,UK)	
* 151	A-4414-198-A	MAIN BOARD, COMPLETE (E,EA3(Malaysia Product),SP,MY,AR,TW,AUS,CH)	
* 151	A-4414-549-A	MAIN BOARD, COMPLETE (EE,CIS)	
* 151	A-4414-714-A	MAIN BOARD, COMPLETE (EA3(Japan Product),JE)	
* 151	A-4414-765-A	MAIN BOARD, COMPLETE (EA4,TH)	
* 152	1-669-963-11	SURR SPK BOARD	
153	1-233-545-31	ENCAPSULATED COMPONENT (E,EA4,AR,TH,AUS)	
153	1-233-546-31	ENCAPSULATED COMPONENT (EA3,SP,MY,TW,CH)	
153	1-693-385-31	TUNER (JE)	
* 153	A-4303-597-A	TCB BOARD (EE,CIS)	
* 153	A-4303-596-A	TCB BOARD (AEP,UK)	
* 154	A-4414-195-A	POWER AMP BOARD, COMPLETE (AEP,UK)	
* 154	A-4414-209-A	POWER AMP BOARD, COMPLETE (EE,CIS,E,EA3(Malaysia Product),SP,MY,AR,TW,AUS,CH)	
* 154	A-4414-743-A	POWER AMP BOARD, COMPLETE (EA3(Japan Product),JE)	
* 154	A-4414-790-A	POWER AMP BOARD, COMPLETE (EA4,TH)	
* 155	1-669-954-11	SECONDARY BOARD	

Ref. No.	Part No.	Description	Remark
* 156	1-669-953-11	PRIMARY BOARD	
* 157	4-900-848-01	BACK PANEL (E,EA3,SP,MY,AR,TW,JE)	
* 157	4-900-848-11	BACK PANEL (AEP,UK,EE,CIS,EA4,TH,AUS,CH)	
158	4-970-381-11	FOOT (REAR)	
* 159	3-703-244-00	BUSHING (2104), CORD (AEP,UK,EE,CIS,E,EA,SP,MY,AR,TW,AUS,CH,JE)	
159	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
⚠160	1-575-651-11	CORD, POWER (EA3(JAPAN PRODUCT))	
⚠160	1-575-653-11	CORD, POWER (TH,JE)	
⚠160	1-696-847-11	CORD, POWER (AUS)	
⚠160	1-751-520-11	CORD, POWER (UK)	
⚠160	1-777-071-21	CORD, POWER (AEP,EE,CIS,EA3,EA4,SP,MY,TW)	
⚠160	1-783-940-11	CORD, POWER (AR)	
⚠160	1-782-315-11	CORD, POWER (E)	
⚠160	1-783-205-11	CORD, POWER (CH)	
⚠161	1-569-007-11	ADAPTOR, CONVERSION 2P (E,JE)	
⚠161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA3,SP,MY,TW)	
M901	1-763-117-11	FAN, DC	
⚠T901	1-431-904-11	TRANSFORMER, POWER (E,EA3,EA4,SP,MY,AR,TW,TH,AUS,CH,JE)	
⚠T901	1-431-905-11	TRANSFORMER, POWER (AEP,UK,EE,CIS)	

SECTION 7
ELECTRICAL PARTS LIST

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB..., uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  EE : East European model.
  EA3 : Saudi Arabia model
  EA4 : Israel model
  EA : Middle East model (Saudi Arabia and Israel)
  SP : Singapore model.
  MY : Malaysia model.
  TW : Taiwan model
  AUS : Australian model.
  CH : Chinese model
  AR : Argentine model
  JE : Tourist model
  TH : Thai model.

Ref. No.	Part No.	Description			Remark
*	1-669-964-11	DETECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN505	1-568-941-11	PIN, CONNECTOR 3P			
		< SWITCH >			
S892	1-571-300-21	SWITCH, ROTARY (PANEL OPEN/CLOSE)			
**********					
*	1-669-957-11	FRONT AV BOARD			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C6301	1-162-282-31	CERAMIC	100PF	10%	50V
C6302	1-162-282-31	CERAMIC	100PF	10%	50V
C6303	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
* CN6301	1-564-520-11	PLUG, CONNECTOR 5P			
* CN6302	1-560-666-00	PIN, CONNECTOR 3P			
		< DIODE >			
D6301	8-719-911-19	DIODE 1SS119-25			
D6302	8-719-911-19	DIODE 1SS119-25			
D6303	8-719-911-19	DIODE 1SS119-25			
		< JACK >			
J6301	1-784-901-11	JACK, PIN 3P (AV INPUT (VIDEO2))			
		< TRANSISTOR >			
Q6301	8-729-900-36	TRANSISTOR DTC124ES			
		< RESISTOR >			
R6301	1-249-417-11	CARBON	1K	5%	1/4W F
R6302	1-249-417-11	CARBON	1K	5%	1/4W F
R6303	1-249-441-11	CARBON	100K	5%	1/4W
R6304	1-249-441-11	CARBON	100K	5%	1/4W
R6305	1-249-425-11	CARBON	4.7K	5%	1/4W F
R6306	1-249-425-11	CARBON	4.7K	5%	1/4W F
R6307	1-249-425-11	CARBON	4.7K	5%	1/4W F
R6308	1-249-429-11	CARBON	10K	5%	1/4W
**********					
*	1-669-960-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-162-306-11	CERAMIC	0.01uF	20%	16V
C791	1-162-294-31	CERAMIC	0.001uF	10%	50V
C792	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
* CN790	1-568-944-11	PIN, CONNECTOR 6P			
		< EARTH >			
* G790	1-537-738-21	TERMINAL, EARTH			
		< JACK >			
J755	1-770-226-11	JACK (LARGE TYPE)(PHONES)			
**********					
*	1-669-959-11	LOADING PANEL BOARD			
		**********			
		< CAPACITOR >			
C626	1-124-584-00	ELECT	100uF	20%	10V
C627	1-162-306-11	CERAMIC	0.01uF	20%	16V
C628	1-162-306-11	CERAMIC	0.01uF	20%	16V
C629	1-162-306-11	CERAMIC	0.01uF	20%	16V
C630	1-162-306-11	CERAMIC	0.01uF	20%	16V
		< CONNECTOR >			
CN630	1-569-308-11	SOCKET, CONNECTOR (L TYRE) 19P			
		< DIODE >			
D631	8-719-046-39	DIODE SEL5821A-TH15 (GROOVE)			
D632	8-719-046-44	DIODE SEL5221S (◀◀ –)			
D633	8-719-058-04	DIODE SEL5223S-TP15 (MULTI JOG STATION)			
D634	8-719-046-44	DIODE SEL5221S (ENTER/NEXT)			
D635	8-719-046-44	DIODE SEL5221S (EFFECT ON/OFF)			
D638	8-719-046-44	DIODE SEL5221S (NON-STOP)			

LOADING PANEL | MAIN

Ref. No.	Part No.	Description	Remark
D639	8-719-046-44	DIODE SEL5221S (DSP DELAY)	
D640	8-719-046-44	DIODE SEL5221S (DSP REVERB)	
D641	8-719-046-44	DIODE SEL5221S (▶▶ +)	
D642	8-719-058-04	DIODE SEL5223S-TP15 (MULTI JOG STATION)	
		< TRANSISTOR >	
Q531	8-729-900-80	TRANSISTOR DTC114ES	
Q532	8-729-900-80	TRANSISTOR DTC114ES	
Q533	8-729-900-80	TRANSISTOR DTC114ES	
Q534	8-729-900-80	TRANSISTOR DTC114ES	
Q535	8-729-900-80	TRANSISTOR DTC114ES	
Q538	8-729-900-80	TRANSISTOR DTC114ES	
Q539	8-729-900-80	TRANSISTOR DTC114ES	
Q540	8-729-900-80	TRANSISTOR DTC114ES	
		< RESISTOR >	

Ref. No.	Part No.	Description			
R631	1-249-410-11	CARBON	270	5%	1/4W F
R632	1-249-410-11	CARBON	270	5%	1/4W F
R633	1-247-807-31	CARBON	100	5%	1/4W
R634	1-249-410-11	CARBON	270	5%	1/4W F
R635	1-249-416-11	CARBON	820	5%	1/4W F
R638	1-249-416-11	CARBON	820	5%	1/4W F
R639	1-249-416-11	CARBON	820	5%	1/4W F
R640	1-249-416-11	CARBON	820	5%	1/4W F
R641	1-247-807-31	CARBON	100	5%	1/4W
R642	1-249-407-11	CARBON	150	5%	1/4W F
R643	1-249-409-11	CARBON	220	5%	1/4W F
R644	1-249-411-11	CARBON	330	5%	1/4W
R645	1-249-411-11	CARBON	330	5%	1/4W
R646	1-249-413-11	CARBON	470	5%	1/4W F
R647	1-249-415-11	CARBON	680	5%	1/4W F
R648	1-249-417-11	CARBON	1K	5%	1/4W F
R649	1-249-419-11	CARBON	1.5K	5%	1/4W F
R650	1-249-421-11	CARBON	2.2K	5%	1/4W F
R651	1-247-843-11	CARBON	3.3K	5%	1/4W
R652	1-249-417-11	CARBON	1K	5%	1/4W F
R653	1-247-807-31	CARBON	100	5%	1/4W
R654	1-249-407-11	CARBON	150	5%	1/4W F
R655	1-249-409-11	CARBON	220	5%	1/4W F
R656	1-249-411-11	CARBON	330	5%	1/4W
R657	1-249-411-11	CARBON	330	5%	1/4W
R658	1-249-413-11	CARBON	470	5%	1/4W F
R659	1-249-415-11	CARBON	680	5%	1/4W F
R660	1-249-429-11	CARBON	10K	5%	1/4W
R661	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-429-11	CARBON	10K	5%	1/4W
R663	1-249-429-11	CARBON	10K	5%	1/4W
R665	1-247-843-11	CARBON	3.3K	5%	1/4W
R666	1-247-843-11	CARBON	3.3K	5%	1/4W
R671	1-247-807-31	CARBON	100	5%	1/4W
R672	1-247-807-31	CARBON	100	5%	1/4W
R673	1-247-807-31	CARBON	100	5%	1/4W
R674	1-247-807-31	CARBON	100	5%	1/4W
R675	1-247-807-31	CARBON	100	5%	1/4W
R678	1-247-807-31	CARBON	100	5%	1/4W
R679	1-247-807-31	CARBON	100	5%	1/4W
R680	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S631	1-762-378-11	SWITCH, TACTILE (◀◀ –)	
S632	1-762-378-11	SWITCH, TACTILE (GAME)	
S633	1-762-378-11	SWITCH, TACTILE (MUSIC)	
S634	1-762-378-11	SWITCH, TACTILE (MOVIE)	
S635	1-762-378-11	SWITCH, TACTILE (DSP DELAY)	
S636	1-762-378-11	SWITCH, TACTILE (CD REPEAT)	
S637	1-762-378-11	SWITCH, TACTILE (FLASH)	
S638	1-762-378-11	SWITCH, TACTILE (DSP REVERB)	
S639	1-762-378-11	SWITCH, TACTILE (CD PLAY MODE)	
S640	1-762-378-11	SWITCH, TACTILE (CD EDIT)	
S641	1-762-378-11	SWITCH, TACTILE (NON-STOP)	
S642	1-762-378-11	SWITCH, TACTILE (DBFB)	
S643	1-762-378-11	SWITCH, TACTILE (ENTER/NEXT)	
S644	1-762-378-11	SWITCH, TACTILE (▶▶ +)	
S645	1-762-378-11	SWITCH, TACTILE (GROOVE)	
S648	1-762-378-11	SWITCH, TACTILE (EFFECT ON/OFF)	
S649	1-762-378-11	SWITCH, TACTILE (P FILE)	
S650	1-762-378-11	SWITCH, TACTILE (PLACE)	
S651	1-762-378-11	SWITCH, TACTILE (LOOP)	
S652	1-473-392-11	ENCODER, ROTARY (VOLUME)	
S653	1-467-968-11	ENCODER, ROTARY (MULTI JOG STAION)	

****

*	A-4414-190-A	MAIN BOARD, COMPLETE (AEP,UK)	
		**********	
*	A-4414-198-A	MAIN BOARD, COMPLETE	
		**********	
		(E,EA3(Malaysia Product),SP,MY,AR,TW,AUS,CH)	
*	A-4414-549-A	MAIN BOARD, COMPLETE (EE,CIS)	
		**********	
*	A-4414-714-A	MAIN BOARD, COMPLETE	
		**********	
		(EA3(Japan Product),JE)	
*	A-4414-765-A	MAIN BOARD, COMPLETE (EA4,TH)	
		**********	
		< CAPACITOR >	

Ref. No.	Part No.	Description			
C101	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK)
C103	1-126-963-11	ELECT	4.7uF	20%	50V
C104	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK)
C105	1-164-159-11	CERAMIC	0.1uF		50V
C108	1-126-960-11	ELECT	1uF	20%	50V
C111	1-136-171-00	FILM	0.33uF	5%	50V
C112	1-136-161-00	FILM	0.047uF	5%	50V
C113	1-164-159-11	CERAMIC	0.1uF		50V
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V
C115	1-136-159-00	FILM	0.033uF	5%	50V
C116	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C117	1-162-306-11	CERAMIC	0.01uF	20%	16V
C118	1-162-290-31	CERAMIC	470PF	10%	50V
C119	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C120	1-162-302-11	CERAMIC	0.0022uF	20%	16V

Ref. No.	Part No.	Description			Remark
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-162-291-31	CERAMIC	560PF	10%	50V
C123	1-136-165-00	FILM	0.1uF	5%	50V
C124	1-136-165-00	FILM	0.1uF	5%	50V
C125	1-164-159-11	CERAMIC	0.1uF		50V
C126	1-126-964-11	ELECT	10uF	20%	50V
C127	1-104-665-11	ELECT	100uF	20%	10V
C128	1-164-159-11	CERAMIC	0.1uF		50V
C129	1-126-964-11	ELECT	10uF	20%	50V
C131	1-126-961-11	ELECT	2.2uF	20%	50V
C134	1-104-664-11	ELECT	47uF	20%	25V
C135	1-126-959-11	ELECT	0.47uF	20%	50V
C151	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK)
C153	1-126-963-11	ELECT	4.7uF	20%	50V
C154	1-162-286-31	CERAMIC	220PF	10%	50V (AEP,UK)
C161	1-136-171-00	FILM	0.33uF	5%	50V
C162	1-136-161-00	FILM	0.047uF	5%	50V
C163	1-164-159-11	CERAMIC	0.1uF		50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V
C165	1-136-159-00	FILM	0.033uF	5%	50V
C166	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C167	1-162-306-11	CERAMIC	0.01uF	20%	16V
C168	1-162-290-31	CERAMIC	470PF	10%	50V
C169	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C170	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-162-291-31	CERAMIC	560PF	10%	50V
C173	1-136-165-00	FILM	0.1uF	5%	50V
C174	1-136-165-00	FILM	0.1uF	5%	50V
C175	1-136-495-11	FILM	0.068uF	5%	50V
C176	1-162-306-11	CERAMIC	0.01uF	20%	16V
C177	1-104-665-11	ELECT	100uF	20%	10V
C178	1-164-159-11	CERAMIC	0.1uF		50V
C181	1-126-961-11	ELECT	2.2uF	20%	50V
C183	1-126-960-11	ELECT	1uF	20%	50V
C184	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C186	1-162-292-31	CERAMIC	680PF	10%	50V
C187	1-126-961-11	ELECT	2.2uF	20%	50V
C188	1-126-960-11	ELECT	1uF	20%	50V
C401	1-126-964-11	ELECT	10uF	20%	50V
C402	1-162-306-11	CERAMIC	0.01uF	20%	16V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V
C404	1-136-495-11	FILM	0.068uF	5%	50V
C405	1-126-957-11	ELECT	0.22uF	20%	50V
C406	1-126-957-11	ELECT	0.22uF	20%	50V
C407	1-104-664-11	ELECT	47uF	20%	25V
C408	1-164-159-11	CERAMIC	0.1uF		50V
C409	1-104-664-11	ELECT	47uF	20%	25V
C410	1-136-495-11	FILM	0.068uF	5%	50V
C411	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C412	1-162-294-31	CERAMIC	0.001uF	10%	50V
C413	1-126-964-11	ELECT	10uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-104-664-11	ELECT	47uF	20%	25V
C416	1-104-664-11	ELECT	47uF	20%	25V
C417	1-126-964-11	ELECT	10uF	20%	50V
C418	1-126-964-11	ELECT	10uF	20%	50V
C731	1-104-664-11	ELECT	47uF	20%	25V
C732	1-126-964-11	ELECT	10uF	20%	50V
C751	1-136-495-11	FILM	0.068uF	5%	50V (AEP,UK)
C761	1-136-495-11	FILM	0.068uF	5%	50V (AEP,UK)
C801	1-136-165-00	FILM	0.1uF	5%	50V
C802	1-136-165-00	FILM	0.1uF	5%	50V
C803	1-104-482-11	ELECT	4700uF	20%	63V
C804	1-104-482-11	ELECT	4700uF	20%	63V
C805	1-126-948-11	ELECT	100uF	20%	35V
C806	1-126-964-11	ELECT	10uF	20%	50V
C807	1-136-165-00	FILM	0.1uF	5%	50V
C808	1-136-165-00	FILM	0.1uF	5%	50V
C809	1-126-943-11	ELECT	2200uF	20%	25V
C810	1-126-943-11	ELECT	2200uF	20%	25V
C815	1-126-940-11	ELECT	330uF	20%	25V
C816	1-126-941-11	ELECT	470uF	20%	25V
C818	1-126-959-11	ELECT	0.47uF	20%	50V
C819	1-104-664-11	ELECT	47uF	20%	25V
C820	1-126-959-11	ELECT	0.47uF	20%	50V
C821	1-104-664-11	ELECT	47uF	20%	25V
C822	1-126-940-11	ELECT	330uF	20%	25V
C823	1-126-960-11	ELECT	1uF	20%	50V
C824	1-104-665-11	ELECT	100uF	20%	10V
C825	1-126-959-11	ELECT	0.47uF	20%	50V
C826	1-104-664-11	ELECT	47uF	20%	25V
C851	1-126-964-11	ELECT	10uF	20%	50V
C852	1-104-665-11	ELECT	100uF	20%	10V
C853	1-164-159-11	CERAMIC	0.1uF		50V
C854	1-126-961-11	ELECT	2.2uF	20%	50V
C855	1-126-934-11	ELECT	220uF	20%	10V
C856	1-104-665-11	ELECT	100uF	20%	10V

< CONNECTOR >

*	CN101	1-764-017-21	HOUSING,CONNECTOR (PC BOARD) 17P
	CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P
*	CN131	1-564-507-11	PLUG, CONNECTOR 4P
	CN701	1-778-311-11	SOCKET, CONNECTOR (PC BOARD) 30P
*	CN731	1-569-496-11	SOCKET, CONNECTOR 10P
	CN801	1-691-773-11	PLUG (MICRO CONNECTOR) 11P

< DIODE >

D101	8-719-911-19	DIODE 1SS119-25
D102	8-719-911-19	DIODE 1SS119-25
D131	8-719-911-19	DIODE 1SS119-25
D401	8-719-911-19	DIODE 1SS119-25
D402	8-719-911-19	DIODE 1SS119-25
D403	8-719-911-19	DIODE 1SS119-25
D751	8-719-911-19	DIODE 1SS119-25
D752	8-719-911-19	DIODE 1SS119-25
D761	8-719-911-19	DIODE 1SS119-25
D781	8-719-024-99	DIODE 11ES2-NTA2B
D801	8-719-302-38	DIODE RBV-602-01
D802	8-719-911-19	DIODE 1SS119-25
D803	8-719-911-19	DIODE 1SS119-25
D804	8-719-934-22	DIODE HZS30-2L

MAIN

Ref. No.	Part No.	Description	Remark
D805	8-719-024-99	DIODE 11ES2-NTA2B	
D806	8-719-024-99	DIODE 11ES2-NTA2B	
D807	8-719-024-99	DIODE 11ES2-NTA2B	
D808	8-719-024-99	DIODE 11ES2-NTA2B	
D810	8-719-024-99	DIODE 11ES2-NTA2B	
D811	8-719-024-99	DIODE 11ES2-NTA2B	
D812	8-719-911-19	DIODE 1SS119-25	
D813	8-719-024-99	DIODE 11ES2-NTA2B	
D821	8-719-024-99	DIODE 11ES2-NTA2B	
D851	8-719-911-19	DIODE 1SS119-25	
D852	8-719-911-19	DIODE 1SS119-25	
D853	8-719-911-19	DIODE 1SS119-25	
		< EARTH >	
* E801	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC111	8-759-495-24	IC M62442FP-TP	
IC112	8-759-000-48	IC MC14052BCP	
IC113	8-759-634-51	IC M5218AP	
IC401	8-759-450-96	IC M65850P	
IC402	8-759-140-53	IC UPD4053BC	
IC801	8-759-604-86	IC M5F7807L	
IC802	8-759-604-90	IC M5F7907L	
IC803	8-759-231-53	IC TA7805S	
IC804	8-759-604-32	IC M5F7810L	
IC851	8-759-111-68	IC UPC1237HA	
		< JACK >	
J101	1-770-613-11	JACK, PIN 4P (MD/VIDEO1 IN,OUT)	
		< COIL >	
L131	1-410-521-11	INDUCTOR 100uH	
L401	1-410-521-11	INDUCTOR 100uH	
L751	1-420-872-00	COIL, AIR-CORE (AEP,UK)	
L761	1-420-872-00	COIL, AIR-CORE (AEP,UK)	
		< TRANSISTOR >	
Q121	8-729-422-57	TRANSISTOR UN4111	
Q132	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q182	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q183	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q401	8-729-119-77	TRANSISTOR 2SA1175-FEK	
Q731	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q732	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q801	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q851	8-729-900-63	TRANSISTOR DTA124ES	
Q852	8-729-900-36	TRANSISTOR DTC124ES	
Q853	8-729-900-36	TRANSISTOR DTC124ES	
		< RESISTOR >	
R101	1-249-417-11	CARBON 1K 5% 1/4W F (AEP,UK,EE,CIS)	
R102	1-249-441-11	CARBON 100K 5% 1/4W (AEP,UK)	
R103	1-249-417-11	CARBON 1K 5% 1/4W F	
R104	1-249-441-11	CARBON 100K 5% 1/4W	
R105	1-249-441-11	CARBON 100K 5% 1/4W	
R106	1-249-417-11	CARBON 1K 5% 1/4W F	
R108	1-249-417-11	CARBON 1K 5% 1/4W F	
R109	1-249-441-11	CARBON 100K 5% 1/4W	
R111	1-249-417-11	CARBON 1K 5% 1/4W F	
R112	1-249-413-11	CARBON 470 5% 1/4W F	
R113	1-247-903-00	CARBON 1M 5% 1/4W	
R114	1-247-903-00	CARBON 1M 5% 1/4W	
R115	1-249-433-11	CARBON 22K 5% 1/4W	
R116	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R117	1-247-895-00	CARBON 470K 5% 1/4W	
R118	1-249-429-11	CARBON 10K 5% 1/4W	
R119	1-249-441-11	CARBON 100K 5% 1/4W	
R120	1-249-441-11	CARBON 100K 5% 1/4W	
R121	1-249-417-11	CARBON 1K 5% 1/4W F	
R122	1-249-417-11	CARBON 1K 5% 1/4W F	
R123	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R131	1-249-435-11	CARBON 33K 5% 1/4W	
R132	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R134	1-249-435-11	CARBON 33K 5% 1/4W	
R135	1-249-439-11	CARBON 68K 5% 1/4W	
R136	1-247-883-00	CARBON 150K 5% 1/4W	
R138	1-249-437-11	CARBON 47K 5% 1/4W	
R139	1-247-903-00	CARBON 1M 5% 1/4W	
R140	1-249-441-11	CARBON 100K 5% 1/4W	
R141	1-249-417-11	CARBON 1K 5% 1/4W F	
R142	1-249-437-11	CARBON 47K 5% 1/4W	
R145	1-247-887-00	CARBON 220K 5% 1/4W	
R151	1-249-417-11	CARBON 1K 5% 1/4W F (AEP,UK)	
R152	1-249-441-11	CARBON 100K 5% 1/4W (AEP,UK)	
R153	1-249-417-11	CARBON 1K 5% 1/4W F	
R154	1-249-441-11	CARBON 100K 5% 1/4W	
R155	1-249-441-11	CARBON 100K 5% 1/4W	
R156	1-249-417-11	CARBON 1K 5% 1/4W F	
R158	1-249-417-11	CARBON 1K 5% 1/4W F	
R159	1-249-441-11	CARBON 100K 5% 1/4W	
R161	1-249-417-11	CARBON 1K 5% 1/4W F	
R162	1-249-413-11	CARBON 470 5% 1/4W F	
R163	1-247-903-00	CARBON 1M 5% 1/4W	
R164	1-247-903-00	CARBON 1M 5% 1/4W	
R165	1-249-433-11	CARBON 22K 5% 1/4W	
R166	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R167	1-247-895-00	CARBON 470K 5% 1/4W	
R172	1-249-429-11	CARBON 10K 5% 1/4W	
R173	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R181	1-249-435-11	CARBON 33K 5% 1/4W	
R182	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R184	1-249-435-11	CARBON 33K 5% 1/4W	
R185	1-249-439-11	CARBON 68K 5% 1/4W	
R186	1-247-883-00	CARBON 150K 5% 1/4W	
R188	1-249-437-11	CARBON 47K 5% 1/4W	
R189	1-249-429-11	CARBON 10K 5% 1/4W	
R190	1-247-895-00	CARBON 470K 5% 1/4W	
R191	1-249-417-11	CARBON 1K 5% 1/4W F	
R192	1-249-437-11	CARBON 47K 5% 1/4W	
R193	1-249-441-11	CARBON 100K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R194	1-249-417-11	CARBON	1K	5%	1/4W F
R195	1-249-417-11	CARBON	1K	5%	1/4W F
R196	1-249-429-11	CARBON	10K	5%	1/4W
R340	1-247-843-11	CARBON	3.3K	5%	1/4W
R401	1-249-421-11	CARBON	2.2K	5%	1/4W F
R402	1-249-422-11	CARBON	2.7K	5%	1/4W F
R403	1-249-426-11	CARBON	5.6K	5%	1/4W
R404	1-249-439-11	CARBON	68K	5%	1/4W
R405	1-249-433-11	CARBON	22K	5%	1/4W
R406	1-249-433-11	CARBON	22K	5%	1/4W
R407	1-249-433-11	CARBON	22K	5%	1/4W
R408	1-249-425-11	CARBON	4.7K	5%	1/4W F
R409	1-249-437-11	CARBON	47K	5%	1/4W
R410	1-249-421-11	CARBON	2.2K	5%	1/4W F
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	1-249-429-11	CARBON	10K	5%	1/4W
R413	1-249-421-11	CARBON	2.2K	5%	1/4W F
R414	1-247-903-00	CARBON	1M	5%	1/4W
R415	1-249-433-11	CARBON	22K	5%	1/4W
R416	1-249-437-11	CARBON	47K	5%	1/4W
R417	1-249-437-11	CARBON	47K	5%	1/4W
R418	1-247-903-00	CARBON	1M	5%	1/4W
R419	1-249-433-11	CARBON	22K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R701	1-247-807-31	CARBON	100	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
R703	1-247-807-31	CARBON	100	5%	1/4W (AEP,UK)
R704	1-247-807-31	CARBON	100	5%	1/4W (AEP,UK)
R705	1-247-807-31	CARBON	100	5%	1/4W
R706	1-247-807-31	CARBON	100	5%	1/4W
R707	1-247-807-31	CARBON	100	5%	1/4W
R708	1-247-807-31	CARBON	100	5%	1/4W
R709	1-247-807-31	CARBON	100	5%	1/4W
R710	1-247-807-31	CARBON	100	5%	1/4W
R711	1-247-807-31	CARBON	100	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R714	1-247-807-31	CARBON	100	5%	1/4W
R715	1-247-807-31	CARBON	100	5%	1/4W
R716	1-247-807-31	CARBON	100	5%	1/4W
R717	1-247-807-31	CARBON	100	5%	1/4W
R731	1-249-429-11	CARBON	10K	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-425-11	CARBON	4.7K	5%	1/4W F
R751	1-249-432-11	CARBON	18K	5%	1/4W
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R754	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R755	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP,UK)
R756	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP,UK)
R757	1-249-435-11	CARBON	33K	5%	1/4W
⚠R758	1-215-869-11	METAL OXIDE	1K	5%	1W F (AEP,UK,EE,CIS)
⚠R758	1-216-457-00	METAL OXIDE	1.2K	5%	2W F (E,EA,SP,MY,AR,TW,TH,AUS,CH,JE)
R761	1-249-432-11	CARBON	18K	5%	1/4W
R762	1-249-437-11	CARBON	47K	5%	1/4W
R763	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R764	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R765	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP,UK)
R766	1-249-389-11	CARBON	4.7	5%	1/4W F (AEP,UK)
R767	1-249-435-11	CARBON	33K	5%	1/4W
R781	1-260-100-11	CARBON	1.2K	5%	1/2W
R782	1-260-100-11	CARBON	1.2K	5%	1/2W
R783	1-260-100-11	CARBON	1.2K	5%	1/2W
R784	1-260-100-11	CARBON	1.2K	5%	1/2W
R801	1-249-431-11	CARBON	15K	5%	1/4W
R802	1-249-431-11	CARBON	15K	5%	1/4W
R803	1-249-429-11	CARBON	10K	5%	1/4W
⚠R804	1-212-982-00	FUSIBLE	100	5%	1/2W F
R851	1-249-431-11	CARBON	15K	5%	1/4W
R852	1-249-435-11	CARBON	33K	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-397-11	CARBON	22	5%	1/4W F
R855	1-249-441-11	CARBON	100K	5%	1/4W
R856	1-249-429-11	CARBON	10K	5%	1/4W

< RELAY >

RY751	1-515-920-11	RELAY (24V)	

< TERMINAL >

TB751	1-537-240-31	TERMINAL BOARD (CHECKER PIN)	(FRONT SPEAKER)

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*	A-4414-202-A	MIC/ECHO BOARD, COMPLETE	(EXCEPT EA3(Japan Product),JE)
		**********	
*	A-4414-718-A	MIC/ECHO BOARD, COMPLETE	(EA3(Japan Product),JE)
		**********	

< CAPACITOR >

C6001	1-162-306-11	CERAMIC	0.01uF	20%	16V
C6002	1-124-257-00	ELECT	2.2uF	20%	50V
C6003	1-162-306-11	CERAMIC	0.01uF	20%	16V (EA3(Japan Product),JE)
C6004	1-124-257-00	ELECT	2.2uF	20%	50V
C6005	1-162-294-31	CERAMIC	0.001uF	10%	50V
C6006	1-162-215-31	CERAMIC	47PF	5%	50V
C6007	1-162-290-31	CERAMIC	470PF	10%	50V
C6008	1-126-157-11	ELECT	10uF	20%	16V
C6009	1-124-465-00	ELECT	0.47uF	20%	50V
C6010	1-162-215-31	CERAMIC	47PF	5%	50V
C6011	1-162-282-31	CERAMIC	100PF	10%	50V
C6012	1-126-157-11	ELECT	10uF	20%	16V
C6014	1-124-257-00	ELECT	2.2uF	20%	50V
C6015	1-124-257-00	ELECT	2.2uF	20%	50V (EA3(Japan Product),JE)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MIC/ECHO

Ref. No.	Part No.	Description				Remark
C6016	1-126-967-11	ELECT	47uF	20%	16V	
			(EA3(Japan Product),JE)			
C6017	1-164-159-11	CERAMIC	0.1uF		50V	
			(EA3(Japan Product),JE)			
C6018	1-126-967-11	ELECT	47uF	20%	16V	
			(EA3(Japan Product),JE)			
C6019	1-136-495-11	FILM	0.068uF	5%	50V	
			(EA3(Japan Product),JE)			
C6020	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
			(EA3(Japan Product),JE)			
C6021	1-162-294-31	CERAMIC	0.001uF	10%	50V	
			(EA3(Japan Product),JE)			
C6022	1-124-257-00	ELECT	2.2uF	20%	50V	
			(EA3(Japan Product),JE)			
C6023	1-161-494-00	CERAMIC	0.022uF		25V	
			(EA3(Japan Product),JE)			
C6024	1-136-167-00	FILM	0.15uF	5%	50V	
			(EA3(Japan Product),JE)			
C6025	1-126-957-11	ELECT	0.22uF	20%	50V	
			(EA3(Japan Product),JE)			
C6026	1-126-957-11	ELECT	0.22uF	20%	50V	
			(EA3(Japan Product),JE)			
C6027	1-136-495-11	FILM	0.068uF	5%	50V	
			(EA3(Japan Product),JE)			
C6028	1-162-294-31	CERAMIC	0.001uF	10%	50V	
			(EA3(Japan Product),JE)			
C6029	1-162-305-11	CERAMIC	0.0068uF	30%	16V	
			(EA3(Japan Product),JE)			
C6031	1-162-306-11	CERAMIC	0.01uF	20%	16V	
		< CONNECTOR >				
CN6001	1-506-469-11	PIN, CONNECTOR 4P				
		< DIODE >				
D6001	8-719-911-19	DIODE 1SS119-25 (EA3(Japan Product),JE)				
D6002	8-719-911-19	DIODE 1SS119-25 (EA3(Japan Product),JE)				
D6003	8-719-911-19	DIODE 1SS119-25 (EA3(Japan Product),JE)				
		< EARTH >				
* E6001	1-537-738-21	TERMINAL, EARTH				
		< IC >				
IC6001	8-759-634-51	IC M5218AP				
IC6002	8-759-450-96	IC M65850P (EA3(Japan Product),JE)				
		< JACK >				
J6001	1-770-226-11	JACK (LARGE TYPE)				
		(MIX MIC:EXCEPT EA3(Japan Product),JE)(MIC1:EA3(Japan Product),JE)				
J6002	1-750-733-11	JACK (LARGE TYPE)(MIC2)				
			(EA3(Japan Product),JE)			
		< COIL >				
L6011	1-410-521-11	INDUCTOR	100uH			
			(EA3(Japan Product),JE)			
		< RESISTOR >				
R6001	1-249-429-11	CARBON	10K	5%	1/4W	
R6002	1-249-417-11	CARBON	1K	5%	1/4W	F
R6003	1-249-429-11	CARBON	10K	5%	1/4W	
			(EA3(Japan Product),JE)			

MOTOR

Ref. No.	Part No.	Description				Remark
R6004	1-249-417-11	CARBON	1K	5%	1/4W	F
			(EA3(Japan Product),JE)			
R6005	1-249-441-11	CARBON	100K	5%	1/4W	
R6006	1-249-417-11	CARBON	1K	5%	1/4W	F
R6007	1-249-433-11	CARBON	22K	5%	1/4W	
R6008	1-249-429-11	CARBON	10K	5%	1/4W	
R6009	1-247-885-00	CARBON	180K	5%	1/4W	
R6010	1-247-807-31	CARBON	100	5%	1/4W	
R6011	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6012	1-247-881-00	CARBON	120K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6013	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6014	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6015	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6016	1-249-429-11	CARBON	10K	5%	1/4W	F
			(EA3(Japan Product),JE)			
R6017	1-249-437-11	CARBON	47K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6018	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6019	1-249-433-11	CARBON	22K	5%	1/4W	
			(EA3(Japan Product),JE)			
R6020	1-249-431-11	CARBON	15K	5%	1/4W	
			(EA3(Japan Product),JE)			
		< VARIABLE RESISTOR >				
RV6001	1-225-410-11	RES, VAR, CARBON 50K (MIC LEVEL)				
			(EXECEPT EA3(Japan Product), JE)			
RV6001	1-225-511-21	RES, VAR, CARBON 50K/50K				
		(MIC LEVEL, ECHO LEVEL)(EA3(Japan Product),JE)				

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*	1-669-965-11	MOTOR BOARD				
		**********				
		< CAPACITOR >				
C891	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C892	1-124-478-11	ELECT	100uF	20%	25V	
C893	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
* CN892	1-568-941-11	PIN, CONNECTOR 3P				
		< DIODE >				
D891	8-719-947-16	DIODE MTZJ-T-72-5.1A				
		< IC >				
IC891	8-759-822-09	IC LB1641				
		< RESISTOR >				
R891	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R892	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R893	1-249-429-11	CARBON	10K	5%	1/4W	
R894	1-249-413-11	CARBON	470	5%	1/4W	F

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Ref. No.	Part No.	Description			Remark
*	A-4414-196-A	PANEL BOARD, COMPLETE (AEP,UK)			
		**********			
*	A-4414-212-A	PANEL BOARD, COMPLETE			
		**********			
		(EA3(Malaysia Product),SP,MY,TW,CH)			
*	A-4414-544-A	PANEL BOARD, COMPLETE (E,AR)			
		**********			
*	A-4414-551-A	PANEL BOARD, COMPLETE (EE,CIS)			
		**********			
*	A-4414-547-A	PANEL BOARD, COMPLETE (AUS)			
		**********			
*	A-4414-746-A	PANEL BOARD, COMPLETE (JE)			
		**********			
*	A-4414-754-A	PANEL BOARD, COMPLETE			
		**********			
		(EA3(Japan Product))			
*	A-4414-793-A	PANEL BOARD, COMPLETE (EA4,TH)			
		**********			
*	4-900-849-01	HOLDER (FL)			
*	4-932-810-11	CUSHION (FL)			
		< CAPACITOR >			
C501	1-162-205-31	CERAMIC	18PF	5%	50V
C502	1-162-205-31	CERAMIC	18PF	5%	50V
C503	1-104-905-11	CAPACITOR	0.22F		5.5V
C505	1-164-159-11	CERAMIC	0.1uF		50V
C506	1-164-159-11	CERAMIC	0.1uF		50V
C507	1-164-159-11	CERAMIC	0.1uF		50V
C508	1-164-159-11	CERAMIC	0.1uF		50V
C509	1-124-589-11	ELECT	47uF	20%	16V
C510	1-162-306-11	CERAMIC	0.01uF	20%	16V
C513	1-162-284-31	CERAMIC	150PF	10%	50V
C514	1-162-284-31	CERAMIC	150PF	10%	50V
C517	1-162-303-11	CERAMIC	0.0033uF	30%	16V
C518	1-126-157-11	ELECT	10uF	20%	16V
C519	1-126-157-11	ELECT	10uF	20%	16V
C520	1-126-157-11	ELECT	10uF	20%	16V
C521	1-162-306-11	CERAMIC	0.01uF	20%	16V
C522	1-126-157-11	ELECT	10uF	20%	16V
C523	1-126-157-11	ELECT	10uF	20%	16V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V
C604	1-162-294-31	CERAMIC	0.001uF	10%	50V
C605	1-126-157-11	ELECT	10uF	20%	16V
C606	1-124-261-00	ELECT	10uF	20%	50V
C607	1-124-261-00	ELECT	10uF	20%	50V
C608	1-124-589-11	ELECT	47uF	20%	16V
C609	1-162-282-31	CERAMIC	100PF	10%	50V
C610	1-162-288-31	CERAMIC	330PF	10%	50V
C611	1-162-288-31	CERAMIC	330PF	10%	50V
C612	1-162-288-31	CERAMIC	330PF	10%	50V
C613	1-162-288-31	CERAMIC	330PF	10%	50V
C614	1-162-288-31	CERAMIC	330PF	10%	50V
C615	1-162-288-31	CERAMIC	330PF	10%	50V
C616	1-162-288-31	CERAMIC	330PF	10%	50V
C617	1-162-288-31	CERAMIC	330PF	10%	50V
C618	1-162-288-31	CERAMIC	330PF	10%	50V
C619	1-162-288-31	CERAMIC	330PF	10%	50V
C620	1-162-288-31	CERAMIC	330PF	10%	50V
C621	1-162-288-31	CERAMIC	330PF	10%	50V
C622	1-162-288-31	CERAMIC	330PF	10%	50V
C623	1-162-288-31	CERAMIC	330PF	10%	50V
C624	1-162-288-31	CERAMIC	330PF	10%	50V
C625	1-162-288-31	CERAMIC	330PF	10%	50V
		< CONNECTOR >			
* CN501	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P			
CN503	1-691-650-11	SOCKET, CONNECTOR 19P			
* CN504	1-565-835-11	SOCKET, CONNECTOR 3P			
CNP502	1-778-312-11	PLUG, CONNECTOR (PC BOARD) 30P			
		< DIODE >			
D501	8-719-024-99	DIODE 11ES2-NTA2B			
D502	8-719-911-19	DIODE 1SS119-25			
D504	8-719-911-19	DIODE 1SS119-25			
D505	8-719-911-19	DIODE 1SS119-25			
D506	8-719-911-19	DIODE 1SS119-25			
D507	8-719-911-19	DIODE 1SS119-25			
D509	8-719-024-99	DIODE 11ES2-NTA2B			
D511	8-719-118-62	DIODE RD5.6F-T7B1			
D512	8-719-046-80	DIODE SML19416W-TP4 (MOVIE)			
D513	8-719-046-80	DIODE SML19416W-TP4 (MOVIE)			
D514	8-719-046-80	DIODE SML19416W-TP4 (MUSIC)			
D515	8-719-046-80	DIODE SML19416W-TP4 (MUSIC)			
D516	8-719-046-80	DIODE SML19416W-TP4 (GAME)			
D517	8-719-046-80	DIODE SML19416W-TP4 (GAME)			
D518	8-719-046-80	DIODE SML19416W-TP4 (PLACE)			
D519	8-719-046-80	DIODE SML19416W-TP4 (PLACE)			
D520	8-719-046-80	DIODE SML19416W-TP4 (P FILE)			
D521	8-719-046-80	DIODE SML19416W-TP4 (P FILE)			
D522	8-719-046-44	DIODE SEL5221S (AUTO)			
		< FLUORESCENT INDICATOR >			
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC501	8-759-525-50	IC uPD780016AYGF-012-3BA			
IC502	8-759-165-82	IC PST600E-T			
IC503	8-749-011-22	IC GP1U27X			
IC505	8-759-140-53	IC UPD4053BC			
IC506	8-759-495-25	IC BA3833F-E2			
IC601	8-759-261-63	IC M66004M6FP			
		< COIL >			
L501	1-408-074-00	INDUCTOR 56uH			
L502	1-410-521-11	INDUCTOR 100uH			
		< TRANSISTOR >			
Q501	8-729-620-05	TRANSISTOR 2SC2603-EF			
Q502	8-729-422-57	TRANSISTOR UN4111			

PANEL

Ref. No.	Part No.	Description				Remark
Q503	8-729-422-57	TRANSISTOR	UN4111			
Q504	8-729-422-57	TRANSISTOR	UN4111			
Q505	8-729-422-57	TRANSISTOR	UN4111			
Q506	8-729-422-57	TRANSISTOR	UN4111			
Q507	8-729-422-57	TRANSISTOR	UN4111			
Q508	8-729-422-57	TRANSISTOR	UN4111			
Q509	8-729-422-57	TRANSISTOR	UN4111			
Q510	8-729-422-57	TRANSISTOR	UN4111			
Q511	8-729-422-57	TRANSISTOR	UN4111			
Q512	8-729-900-80	TRANSISTOR	DTC114ES			
Q513	8-729-900-80	TRANSISTOR	DTC114ES			
		< RESISTOR >				
R501	1-247-891-00	CARBON	330K	5%	1/4W	
R502	1-249-433-11	CARBON	22K	5%	1/4W	
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-249-437-11	CARBON	47K	5%	1/4W	
R505	1-249-429-11	CARBON	10K	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-441-11	CARBON	100K	5%	1/4W	
R512	1-249-429-11	CARBON	10K	5%	1/4W	(AEP,UK,EE,CIS,EA4,TH,JE)
R513	1-249-429-11	CARBON	10K	5%	1/4W	(EE,CIS,E,AR)
R514	1-249-429-11	CARBON	10K	5%	1/4W	(E,AR,JE)
R515	1-249-429-11	CARBON	10K	5%	1/4W	(AEP,UK,EE,CIS,AUS)
R516	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R517	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R518	1-247-807-31	CARBON	100	5%	1/4W	
R519	1-247-807-31	CARBON	100	5%	1/4W	
R520	1-247-807-31	CARBON	100	5%	1/4W	
R521	1-247-807-31	CARBON	100	5%	1/4W	
R522	1-247-807-31	CARBON	100	5%	1/4W	
R523	1-247-807-31	CARBON	100	5%	1/4W	
R524	1-247-807-31	CARBON	100	5%	1/4W	
R525	1-247-807-31	CARBON	100	5%	1/4W	
R526	1-247-807-31	CARBON	100	5%	1/4W	
R527	1-247-807-31	CARBON	100	5%	1/4W	
R528	1-247-807-31	CARBON	100	5%	1/4W	
R529	1-247-807-31	CARBON	100	5%	1/4W	
R530	1-247-807-31	CARBON	100	5%	1/4W	
R531	1-247-807-31	CARBON	100	5%	1/4W	
R532	1-247-807-31	CARBON	100	5%	1/4W	
R533	1-247-807-31	CARBON	100	5%	1/4W	
R534	1-247-807-31	CARBON	100	5%	1/4W	
R535	1-247-807-31	CARBON	100	5%	1/4W	
R536	1-247-807-31	CARBON	100	5%	1/4W	
R537	1-247-807-31	CARBON	100	5%	1/4W	
R538	1-247-807-31	CARBON	100	5%	1/4W	
R539	1-247-807-31	CARBON	100	5%	1/4W	
R540	1-247-807-31	CARBON	100	5%	1/4W	
R541	1-247-807-31	CARBON	100	5%	1/4W	
R542	1-247-807-31	CARBON	100	5%	1/4W	
R543	1-247-807-31	CARBON	100	5%	1/4W	
R544	1-247-807-31	CARBON	100	5%	1/4W	
R546	1-249-441-11	CARBON	100K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R547	1-247-881-00	CARBON	120K	5%	1/4W	
R548	1-249-433-11	CARBON	22K	5%	1/4W	
R549	1-249-429-11	CARBON	10K	5%	1/4W	
R550	1-249-409-11	CARBON	220	5%	1/4W	F
R551	1-249-409-11	CARBON	220	5%	1/4W	F
R552	1-247-807-31	CARBON	100	5%	1/4W	
R553	1-247-807-31	CARBON	100	5%	1/4W	
R554	1-247-807-31	CARBON	100	5%	1/4W	
R555	1-247-807-31	CARBON	100	5%	1/4W	
R556	1-247-807-31	CARBON	100	5%	1/4W	
R557	1-247-807-31	CARBON	100	5%	1/4W	
R558	1-247-807-31	CARBON	100	5%	1/4W	
R559	1-247-807-31	CARBON	100	5%	1/4W	
R560	1-247-807-31	CARBON	100	5%	1/4W	
R561	1-247-807-31	CARBON	100	5%	1/4W	
R562	1-247-807-31	CARBON	100	5%	1/4W	
R563	1-247-807-31	CARBON	100	5%	1/4W	
R564	1-247-807-31	CARBON	100	5%	1/4W	
R565	1-247-807-31	CARBON	100	5%	1/4W	
R566	1-247-807-31	CARBON	100	5%	1/4W	
R567	1-247-807-31	CARBON	100	5%	1/4W	
R568	1-247-807-31	CARBON	100	5%	1/4W	
R569	1-249-407-11	CARBON	150	5%	1/4W	F
R570	1-249-409-11	CARBON	220	5%	1/4W	F
R571	1-249-411-11	CARBON	330	5%	1/4W	
R572	1-249-411-11	CARBON	330	5%	1/4W	
R573	1-249-413-11	CARBON	470	5%	1/4W	F
R574	1-249-415-11	CARBON	680	5%	1/4W	F
R575	1-249-417-11	CARBON	1K	5%	1/4W	F
R576	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R577	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R578	1-247-843-11	CARBON	3.3K	5%	1/4W	
R579	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R580	1-249-429-11	CARBON	10K	5%	1/4W	
R581	1-249-433-11	CARBON	22K	5%	1/4W	
R582	1-249-439-11	CARBON	68K	5%	1/4W	
R583	1-247-807-31	CARBON	100	5%	1/4W	
R584	1-249-407-11	CARBON	150	5%	1/4W	F
R585	1-249-409-11	CARBON	220	5%	1/4W	F
R586	1-249-411-11	CARBON	330	5%	1/4W	
R587	1-249-411-11	CARBON	330	5%	1/4W	
R588	1-249-413-11	CARBON	470	5%	1/4W	F
R589	1-249-415-11	CARBON	680	5%	1/4W	F
R590	1-249-417-11	CARBON	1K	5%	1/4W	F
R591	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R592	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R593	1-247-843-11	CARBON	3.3K	5%	1/4W	
R594	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R595	1-249-429-11	CARBON	10K	5%	1/4W	
R596	1-249-433-11	CARBON	22K	5%	1/4W	
R597	1-249-403-11	CARBON	68	5%	1/4W	F
R598	1-249-403-11	CARBON	68	5%	1/4W	F
R599	1-249-403-11	CARBON	68	5%	1/4W	F
R600	1-249-403-11	CARBON	68	5%	1/4W	F
R601	1-249-403-11	CARBON	68	5%	1/4W	F
R602	1-249-403-11	CARBON	68	5%	1/4W	F
R603	1-249-403-11	CARBON	68	5%	1/4W	F
R604	1-249-403-11	CARBON	68	5%	1/4W	F

Ref. No.	Part No.	Description			Remark
R605	1-249-403-11	CARBON	68	5%	1/4W F
R606	1-249-403-11	CARBON	68	5%	1/4W F
R607	1-249-415-11	CARBON	680	5%	1/4W F
R608	1-247-807-31	CARBON	100	5%	1/4W
R614	1-249-434-11	CARBON	27K	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-429-11	CARBON	10K	5%	1/4W
R617	1-249-417-11	CARBON	1K	5%	1/4W F
R618	1-247-843-11	CARBON	3.3K	5%	1/4W
R619	1-249-437-11	CARBON	47K	5%	1/4W
R621	1-247-843-11	CARBON	3.3K	5%	1/4W
R622	1-247-843-11	CARBON	3.3K	5%	1/4W
R623	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
S501	1-762-378-11	SWITCH, TACTILE (EQ 16kHz +)			
S502	1-762-378-11	SWITCH, TACTILE (NAME IN)			
S503	1-762-378-11	SWITCH, TACTILE (CHAR)			
S504	1-762-378-11	SWITCH, TACTILE (EQ MEMORY)			
S505	1-762-378-11	SWITCH, TACTILE (OPEN/CLOSE)			
S506	1-762-378-11	SWITCH, TACTILE (TUNER BAND)			
S507	1-762-378-11	SWITCH, TACTILE (STEREO/MONO)			
S508	1-762-378-11	SWITCH, TACTILE (MEMORY)			
S509	1-762-378-11	SWITCH, TACTILE (KARAOKE PONMPX)			
S510	1-762-378-11	SWITCH, TACTILE (OPEN SENSOR ON/OFF)			
S511	1-762-378-11	SWITCH, TACTILE (INSERT)			
S512	1-762-378-11	SWITCH, TACTILE (DELETE)			
S513	1-762-378-11	SWITCH, TACTILE (EQ 16kHz –)			
S514	1-762-378-11	SWITCH, TACTILE (FUNCTION)			
S515	1-762-378-11	SWITCH, TACTILE (TIMER SELECT)			
S516	1-762-378-11	SWITCH, TACTILE (CLOCK/TIMER SET)			
S517	1-762-378-11	SWITCH, TACTILE (**I**/⏻)			
S518	1-762-378-11	SWITCH, TACTILE (DISPLAY/DEMO)			
S519	1-762-378-11	SWITCH, TACTILE (PTY)			
S520	1-762-378-11	SWITCH, TACTILE (SURROUND +)			
S521	1-762-378-11	SWITCH, TACTILE (SURROUND –)			
S522	1-762-378-11	SWITCH, TACTILE (DBFB –)			
S523	1-762-378-11	SWITCH, TACTILE (DBFB +)			
S524	1-762-378-11	SWITCH, TACTILE (EQ 63Hz +)			
S525	1-762-378-11	SWITCH, TACTILE (EQ 63Hz –)			
S526	1-762-378-11	SWITCH, TACTILE (EQ 250Hz –)			
S527	1-762-378-11	SWITCH, TACTILE (EQ 250Hz +)			
S528	1-762-378-11	SWITCH, TACTILE (EQ 1kHz +)			
S529	1-762-378-11	SWITCH, TACTILE (EQ 1kHz –)			
S530	1-762-378-11	SWITCH, TACTILE (EQ 4kHz –)			
S531	1-762-378-11	SWITCH, TACTILE (EQ 4kHz +)			
		< VIBRATOR >			
X501	1-760-489-11	VIBRATOR, CERAMIC (5MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)			

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Ref. No.	Part No.	Description	Remark
*	A-4414-195-A	POWER AMP BOARD, COMPLETE (AEP,UK)	
		**********	
*	A-4414-209-A	POWER AMP BOARD, COMPLETE	
		**********	
		(EE,CIS,E,EA3(Malaysia Product),SP,MY,AR,TW,AUS,CH)	
*	A-4414-743-A	POWER AMP BOARD, COMPLETE	
		**********	
		(EA3(Japan Product),JE)	
*	A-4414-790-A	POWER AMP BOARD, COMPLETE (EA4,TH)	
		**********	
		< CAPACITOR >	

C901	1-126-963-11	ELECT	4.7uF	20%	50V
C902	1-162-294-31	CERAMIC	0.001uF	10%	50V
C903	1-162-282-31	CERAMIC	100PF	10%	50V
C904	1-126-967-11	ELECT	47uF	20%	50V
C905	1-126-967-11	ELECT	47uF	20%	50V
C906	1-136-495-11	FILM	0.068uF	5%	50V
C907	1-136-495-11	FILM	0.068uF	5%	50V
C932	1-128-552-51	ELECT	47uF	20%	63V
C933	1-128-581-11	ELECT	4.7uF	20%	63V
C934	1-128-552-51	ELECT	47uF	20%	63V
C936	1-162-282-31	CERAMIC	100PF	10%	50V
C937	1-126-965-11	ELECT	22uF	20%	50V
C938	1-126-934-11	ELECT	220uF	20%	16V
C940	1-128-581-11	ELECT	4.7uF	20%	63V
C951	1-126-963-11	ELECT	4.7uF	20%	50V
C952	1-162-294-31	CERAMIC	0.001uF	10%	50V
C953	1-162-282-31	CERAMIC	100PF	10%	50V
C954	1-126-967-11	ELECT	47uF	20%	50V
C955	1-126-967-11	ELECT	47uF	20%	50V
C956	1-136-495-11	FILM	0.068uF	5%	50V
C957	1-136-495-11	FILM	0.068uF	5%	50V

		< CONNECTOR >
CN902	1-691-770-11	PLUG (MICRO CONNECTOR) 8P
		< DIODE >
D741	8-719-911-19	DIODE 1SS119-25 (AEP,UK)
D903	8-719-911-19	DIODE 1SS119-25
D941	8-719-911-19	DIODE 1SS119-25
		(EE,CIS,E,EA3,SP,MY,AR,TW,AUS,CH,JE)
D941	8-719-991-33	DIODE 1SS133T-77 (EA4,TH)
D953	8-719-911-19	DIODE 1SS119-25
		< IC >
IC901	8-749-921-04	IC STK-4211MK-2 (AEP,UK)
IC901	8-749-921-68	IC STK-4231MK2
		(EE,CIS,E,EA,SP,MY,AR,TW,TH,AUS,CH,JE)
		< TRANSISTOR >
Q131	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q181	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q901	8-729-900-36	TRANSISTOR DTC124ES
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA

POWER AMP | **PRIMARY** | **SECONDARY** | **SURR SPK**

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R133	1-249-425-11	CARBON	4.7K	5%	1/4W F
R183	1-249-425-11	CARBON	4.7K	5%	1/4W F
R901	1-249-417-11	CARBON	1K	5%	1/4W F
R902	1-249-437-11	CARBON	47K	5%	1/4W
R903	1-249-412-11	CARBON	390	5%	1/4W F (AEP,UK)
R903	1-249-413-11	CARBON	470	5%	1/4W F (EE,CIS,E,EA,SP,MY,AR,TW,TH,AUS,CH,JE)
R904	1-249-437-11	CARBON	47K	5%	1/4W
R906	1-249-429-11	CARBON	10K	5%	1/4W
R907	1-249-429-11	CARBON	10K	5%	1/4W
R908	1-249-429-11	CARBON	10K	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-397-11	CARBON	22	5%	1/4W F
R911	1-249-397-11	CARBON	22	5%	1/4W F
R913	1-249-417-11	CARBON	1K	5%	1/4W F
R914	1-249-431-11	CARBON	15K	5%	1/4W
R915	1-249-441-11	CARBON	100K	5%	1/4W
⚠R920	1-217-156-00	REGISTER	0.22	10%	5W F
⚠R932	1-212-881-11	FUSIBLE	100	5%	1/4W F
R933	1-249-421-11	CARBON	2.2K	5%	1/4W F
R934	1-249-421-11	CARBON	2.2K	5%	1/4W F
R935	1-249-421-11	CARBON	2.2K	5%	1/4W F
R936	1-249-421-11	CARBON	2.2K	5%	1/4W F
R937	1-249-429-11	CARBON	10K	5%	1/4W
R938	1-247-885-00	CARBON	180K	5%	1/4W
R940	1-249-429-11	CARBON	10K	5%	1/4W
R941	1-249-429-11	CARBON	10K	5%	1/4W
R942	1-249-413-11	CARBON	470	5%	1/4W F
⚠R943	1-212-881-11	FUSIBLE	100	5%	1/4W F
R945	1-249-417-11	CARBON	1K	5%	1/4W F
R951	1-249-417-11	CARBON	1K	5%	1/4W F
R952	1-249-437-11	CARBON	47K	5%	1/4W
R953	1-249-412-11	CARBON	390	5%	1/4W F (AEP,UK)
R953	1-249-413-11	CARBON	470	5%	1/4W F (EE,CIS,E,EA,SP,MY,AR,TW,TH,AUS,CH,JE)
R954	1-249-437-11	CARBON	47K	5%	1/4W
R956	1-249-429-11	CARBON	10K	5%	1/4W
R957	1-249-429-11	CARBON	10K	5%	1/4W
R958	1-249-429-11	CARBON	10K	5%	1/4W
R959	1-249-429-11	CARBON	10K	5%	1/4W
R960	1-249-397-11	CARBON	22	5%	1/4W F
R961	1-249-397-11	CARBON	22	5%	1/4W F
R963	1-249-417-11	CARBON	1K	5%	1/4W F
R964	1-249-431-11	CARBON	15K	5%	1/4W
R965	1-249-441-11	CARBON	100K	5%	1/4W
R970	1-217-156-00	REGISTER	0.22	10%	5W F
⚠R970	1-220-893-11	METAL	0.22	10%	5W
⚠R974	1-212-849-00	FUSIBLE	4.7	5%	1/4W F

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Ref. No.	Part No.	Description			Remark
*	1-669-953-11	PRIMARY BOARD			
		**********			
		< CONNECTOR >			
CN871	1-564-321-00	PIN, CONNECTOR 2P			
		< FUSE >			
⚠F873	1-532-506-51	FUSE T6.3AL/250V (E,EA3,SP,MY,AR,TW,JE)			
		< FUSE HOLDER >			
FH8730	1-533-293-11	FUSE HOLDER (E,EA3,SP,MY,AR,TW,JE)			
FH8731	1-533-293-11	FUSE HOLDER (E,EA3,SP,MY,AR,TW,JE)			

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*	1-669-954-11	SECONDARY BOARD			
		**********			
		< FUSE >			
⚠F874	1-532-506-51	FUSE T6.3AL/250V			
F875	1-532-506-51	FUSE T6.3AL/250V			
		< FUSE HOLDER >			
FH8740	1-533-293-11	FUSE HOLDER			
FH8741	1-533-293-11	FUSE HOLDER			
FH8750	1-533-293-11	FUSE HOLDER			
FH8751	1-533-293-11	FUSE HOLDER			
		< RESISTOR >			
⚠R871	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R872	1-219-119-81	FUSIBLE	0.1	5%	1/4W F
⚠R873	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
⚠R874	1-219-120-11	FUSIBLE	0.15	5%	1/4W F
		< SWITCH >			
⚠S871	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR) (E,EA3,SP,MY,AR,TW,JE)			

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*	1-669-963-11	SURR SPK BOARD			
		**********			
		< CAPACITOR >			
C202	1-104-666-11	ELECT	220uF	20%	25V
C203	1-162-306-11	CERAMIC	0.01uF	20%	16V
C221	1-136-495-11	FILM	0.068uF	5%	50V (AEP,UK)
		< CONNECTOR >			
* CN201	1-569-505-11	PIN, CONNECTOR 10P			
CN202	1-564-506-11	PLUG, CONNECTOR 3P			
CN781	1-506-468-11	PIN, CONNECTOR 3P			
		< DIODE >			
D201	8-719-024-99	DIODE 11ES2-NTA2B			
D782	8-719-911-19	DIODE 1SS119-25			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		< GROUND >			
* E781	4-870-539-11	PLATE, GROUND			
		< JACK >			
J781	1-785-011-11	JACK, PIN 2P (MONITOR OUT)			
		< COIL >			
L221	1-420-872-00	COIL, AIR-CORE (AEP,UK)			
		< RESISTOR >			
R221	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R222	1-249-397-11	CARBON	22	5%	1/4W F (AEP,UK)
R223	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)
		< RELAY >			
RY781	1-515-622-11	RELAY			
		< TERMINAL >			
TB201	1-537-925-31	TERMINAL BOARD (REAR SPEAKER)			
**********					
*	A-4303-596-A	TCB BOARD, COMPLETE (EE,CIS) **********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C7	1-101-004-00	CERAMIC	0.01uF		50V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-162-306-11	CERAMIC CHIP	0.01uF	30%	16V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-126-961-11	ELECT	2.2uF	20%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-126-967-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-031-91	CERAMIC CHIP	0.01uF		50V
C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C46	1-126-967-11	ELECT	47uF	20%	16V
C47	1-126-301-11	ELECT	1.0uF	20%	50V
C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
C49	1-126-964-11	ELECT	10uF	20%	50V
C50	1-126-960-11	ELECT	1.0uF	20%	50V
C51	1-126-959-11	ELECT	0.47uF	20%	50V
C52	1-126-960-11	ELECT	1.0uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C61	1-126-301-11	ELECT	1.0uF	20%	50V
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C63	1-163-139-00	CERAMIC CHIP	820PF	5%	50V
C65	1-126-967-11	ELECT	47uF	20%	16V
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C67	1-126-162-11	ELECT	3.3uF	20%	50V
C68	1-163-031-11	CERAMIC	0.01uF		50V
C69	1-126-967-11	ELECT	47uF	20%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C73	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C74	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1701	1-162-294-31	CERAMIC CHIP	0.001uF	10%	50V
C1702	1-130-014-00	FILM	470PF	5%	50V
C1703	1-126-959-11	ELECT	0.47uF	20%	50V
C1704	1-126-959-11	ELECT	0.47uF	20%	50V
C1705	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C1706	1-126-960-11	ELECT	1.0uF	20%	50V
C1707	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C1710	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C1711	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C1712	1-130-736-11	FILM	0.01uF	5%	50V
C1713	1-130-736-11	FILM	0.01uF	5%	50V
C1714	1-126-960-11	ELECT	1.0uF	20%	50V
C1715	1-126-960-11	ELECT	1.0uF	20%	50V
C1716	1-126-960-11	ELECT	1.0uF	20%	50V
C1719	1-126-967-11	ELECT	47uF	20%	16V
C1720	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1723	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1724	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1725	1-126-967-11	ELECT	47uF	20%	16V
C1726	1-126-960-11	ELECT	1.0uF	20%	50V
C1727	1-126-960-11	ELECT	1.0uF	20%	50V
C1728	1-126-966-11	ELECT	33uF	20%	16V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			

TCB

Ref. No.	Part No.	Description	Remark
CF3	1-567-389-11	FILTER, CERAMIC	
		< CONNECTOR >	
CN1	1-774-292-21	HOUSING, CONNECTOR (PC BOARD) 15P	
		< TRIMMER >	
CT1701	1-141-444-11	CAP, CERAMIC TRIMMER 50PF	
		< DIODE >	
D21	8-719-976-99	DIODE DTZ5.1B	
D41	8-719-016-74	DIODE 1SS352	
D42	8-719-016-74	DIODE 1SS352	
D43	8-719-016-74	DIODE 1SS352	
D1701	8-719-016-74	DIODE 1SS352	
D1702	8-719-016-74	DIODE 1SS352	
D1703	8-719-911-19	DIODE 1SS119-25	
D1704	8-719-016-74	DIODE 1SS352	
		< FRONTEND >	
FE1	1-693-335-11	FRONT END (3 GANG)	
FE2	1-233-514-11	ENCAPSULATED COMPONENT	
		< IC >	
IC21	8-759-288-54	IC LC72130	
IC41	8-759-495-82	IC LA1838	
IC1701	8-759-063-04	IC IR3R42	
IC1702	8-759-140-53	IC uPD4053BC	
		< IFT >	
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)	
		< JUMPER RESISTOR >	
JR2	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR6	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR8	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR9	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR12	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR46	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR47	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR48	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR49	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR51	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR52	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR53	1-216-296-91	METAL CHIP 0 5% 1/8W	
JR54	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR1701	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR1702	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR1703	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR1704	1-216-295-91	METAL CHIP 0 5% 1/10W	
JR1705	1-216-295-91	METAL CHIP 0 5% 1/10W	
		< COIL >	
L3	1-410-521-11	MICRO INDUCTOR 100uH	
L41	1-407-500-00	MICRO INDUCTOR 4.7mH	
L1701	1-409-497-11	COIL (FILTER)	

Ref. No.	Part No.	Description	Remark
		< FILTER >	
LPF41	1-239-845-11	FILTER, LOW PASS	
LPF42	1-239-845-11	FILTER, LOW PASS	
		< TRANSISTOR >	
Q1	8-729-201-27	TRANSISTOR 2SC2715-Y	
Q2	8-729-201-27	TRANSISTOR 2SC2715-Y	
Q3	8-729-201-27	TRANSISTOR 2SC2715-Y	
Q4	8-729-201-27	TRANSISTOR 2SC2715-Y	
Q5	8-729-424-08	TRANSISTOR UN2111	
Q9	8-729-216-22	TRANSISTOR 2SA1162-G	
Q11	8-729-421-22	TRANSISTOR UN2211	
Q12	8-729-421-22	TRANSISTOR UN2211	
Q13	8-729-421-22	TRANSISTOR UN2211	
Q14	8-729-421-22	TRANSISTOR UN2211	
Q1701	8-729-424-08	TRANSISTOR UN2111	
Q1702	8-729-027-43	TRANSISTOR RT1N141C-TP-1	
Q1703	8-729-421-22	TRANSISTOR UN2211	
		< RESISTOR >	
R1	1-249-401-11	CARBON 47 5% 1/4W F	
R2	1-216-037-00	METAL CHIP 330 5% 1/10W	
R3	1-216-037-00	METAL CHIP 330 5% 1/10W	
R5	1-216-037-00	METAL CHIP 330 5% 1/10W	
R6	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R7	1-216-049-91	METAL CHIP 1K 5% 1/10W	
R8	1-216-037-00	METAL CHIP 330 5% 1/10W	
R9	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R10	1-216-037-00	METAL CHIP 330 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R13	1-216-037-00	METAL CHIP 330 5% 1/10W	
R14	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R18	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R19	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R21	1-249-417-11	CARBON 1.0K 5% 1/4W	
R22	1-249-417-11	CARBON 1.0K 5% 1/4W	
R23	1-249-417-11	CARBON 1.0K 5% 1/4W	
R24	1-247-807-31	CARBON 100 5% 1/4W	
R25	1-249-417-11	CARBON 1.0K 5% 1/4W F	
R26	1-249-437-11	CARBON 47K 5% 1/4W	
R27	1-249-429-11	CARBON 10K 5% 1/4W	
R28	1-249-417-11	CARBON 1.0K 5% 1/4W F	
R29	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R30	1-216-186-00	METAL CHIP 330 5% 1/8W	
R31	1-216-025-91	METAL CHIP 100 5% 1/10W	
R32	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R33	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R34	1-216-065-91	METAL CHIP 4.7K 5% 1/10W	
R35	1-216-214-00	METAL CHIP 4.7K 5% 1/8W	
R36	1-216-025-91	METAL CHIP 100 5% 1/10W	
R37	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R38	1-216-089-91	METAL CHIP 47K 5% 1/10W	
R39	1-249-429-11	CARBON 10K 5% 1/4W	
R40	1-216-089-91	METAL CHIP 47K 5% 1/10W	
R41	1-216-013-00	METAL CHIP 33 5% 1/10W	
R42	1-216-065-91	METAL CHIP 4.7K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R43	1-216-037-00	METAL CHIP	330	5%	1/10W
R44	1-216-001-00	METAL CHIP	10	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F
R46	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1.0K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/4W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R57	1-216-162-00	METAL CHIP	33	5%	1/8W
R58	1-216-013-00	METAL CHIP	33	5%	1/10W
R91	1-216-295-91	METAL CHIP	0	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1701	1-216-079-00	METAL CHIP	18K	5%	1/10W
R1702	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1703	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R1704	1-216-076-00	METAL CHIP	13K	5%	1/10W
R1705	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R1706	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R1707	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1708	1-216-095-00	METAL CHIP	82K	5%	1/10W
R1709	1-216-089-91	METAL CHIP	47K	5%	1/10W
R1710	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1711	1-249-429-11	CARBON	10K	5%	1/4W
R1714	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1715	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1716	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1717	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1718	1-249-429-11	CARBON	10K	5%	1/4W
R1719	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1720	1-249-434-11	CARBON	27K	5%	1/4W
R1721	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV41	1-238-600-11	RES, ADJ, CARBON 10K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
RV1701	1-238-601-11	RES, ADJ, CARBON 22K			
RV1702	1-238-599-11	RES, ADJ, CARBON 4.7K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)			
		< TEST PIN>			
TP1701	1-536-354-00	PIN, POST			
TP1702	1-536-354-00	PIN, POST			
		< VIBRATOR >			
X21	1-760-549-31	VIBRATOR, CRYSTAL (4.5MHz)			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450kHz)			

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Ref. No.	Part No.	Description			Remark
*	A-4303-597-A	TCB BOARD, COMPLETE (AEP,UK)			
		**********			
		< CAPACITOR >			
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C2	1-126-967-11	ELECT	47uF	20%	16V
C3	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5	1-163-031-11	CERAMIC CHIP	0,01uF		50V
C6	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C8	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C10	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C16	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C19	1-163-249-11	CERAMIC CHIP	82PF	5%	50V
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C22	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C23	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C24	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C26	1-126-967-11	ELECT	47uF	20%	16V
C28	1-126-967-11	ELECT	47uF	20%	16V
C29	1-162-306-11	CERAMIC	0.01uF	30%	16V
C30	1-126-961-11	ELECT	2.2uF	20%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C33	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C34	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C35	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-126-967-11	ELECT	47uF	20%	16V
C41	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C43	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C44	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C45	1-163-077-00	CERAMIC CHIP	0.1uF		50V
C46	1-126-967-11	ELECT	47uF	20%	16V
C47	1-126-301-11	ELECT	1.0uF	20%	50V
C48	1-163-059-00	CERAMIC CHIP	0.01uF		50V
C49	1-126-964-11	ELECT	10uF	20%	50V
C50	1-126-960-11	ELECT	1.0uF	20%	50V
C51	1-126-959-11	ELECT	0.47uF	20%	50V
C52	1-126-960-11	ELECT	1.0uF	20%	50V
C53	1-126-964-11	ELECT	10uF	20%	50V
C54	1-104-396-11	ELECT	10uF	20%	16V
C55	1-104-396-11	ELECT	10uF	20%	16V
C56	1-104-396-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	10%	50V
C59	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C60	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C63	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C65	1-126-967-11	ELECT	47uF	20%	16V
C66	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C67	1-126-162-11	ELECT	3.3uF	20%	50V
C68	1-163-031-11	CERAMIC	0.01uF		50V

TCB

Ref. No.	Part No.	Description			Remark
C69	1-126-967-11	ELECT	47uF	20%	16V
C71	1-162-306-11	CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	ELECT	47uF	20%	16V
C73	1-163-031-11	CERAMIC	0.01uF		50V
C74	1-163-031-11	CERAMIC	0.01uF		50V
C120	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C1751	1-164-159-11	CERAMIC	0.1uF		50V
C1752	1-126-967-11	ELECT	47uF	20%	16V
C1753	1-126-964-11	ELECT	10uF	20%	50V
C1754	1-162-291-31	CERAMIC	560PF	10%	50V
C1755	1-126-964-11	ELECT	10uF	20%	50V
C1756	1-126-961-11	ELECT	2.2uF	20%	50V
C1757	1-162-288-31	CERAMIC	330PF	10%	50V
C1758	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1759	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C1760	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C1761	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1762	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C1763	1-126-961-11	ELECT	2.2uF	20%	50V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-760-393-11	FILTER, CERAMIC			
CF3	1-760-393-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-774-292-21	HOUSING, CONNECTOR (PC BOARD) 15P			
		< DIODE >			
D21	8-719-976-99	DIODE DTZ5.1B			
D41	8-719-016-74	DIODE 1SS352			
D42	8-719-911-19	DIODE 1SS119-25			
D1751	8-719-016-74	DIODE 1SS352			
		< FRONT-END >			
FE1	1-693-357-11	FRONT END (4 GANG)			
FE2	1-233-514-11	ENCAPSULATED COMPONENT			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-495-82	IC LA1838			
IC1751	8-759-634-51	IC M5218AP			
IC1752	8-759-450-86	IC BU1922			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER, IF (CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR2	1-216-295-91	METAL CHIP	0	5%	1/10W
JR6	1-216-295-91	METAL CHIP	0	5%	1/10W
JR8	1-216-295-91	METAL CHIP	0	5%	1/10W
JR9	1-216-295-91	METAL CHIP	0	5%	1/10W
JR12	1-216-296-91	METAL CHIP	0	5%	1/8W
JR46	1-216-296-91	METAL CHIP	0	5%	1/8W
JR47	1-216-295-11	METAL CHIP	0	5%	1/10W
JR48	1-216-295-11	METAL CHIP	0	5%	1/10W
JR49	1-216-296-11	METAL CHIP	0	5%	1/8W
JR51	1-216-295-11	METAL CHIP	0	5%	1/10W
JR52	1-216-295-11	METAL CHIP	0	5%	1/10W
JR53	1-216-296-11	METAL CHIP	0	5%	1/8W
JR54	1-216-295-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L2	1-414-142-11	MICRO INDUCTOR	1uH		
L3	1-410-521-11	MICRO INDUCTOR	100uH		
L4	1-410-515-11	INDUCTOR	33uH		
L41	1-407-500-00	MICRO INDUCTOR	4.7mH		
L1751	1-410-521-11	MICRO INDUCTOR	100uH		
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR 2SC2715-Y			
Q2	8-729-201-27	TRANSISTOR 2SC2715-Y			
Q3	8-729-201-27	TRANSISTOR 2SC2715-Y			
Q4	8-729-201-27	TRANSISTOR 2SC2715-Y			
Q5	8-729-424-08	TRANSISTOR UN2111			
Q9	8-729-216-22	TRANSISTOR 2SA1162-G			
Q11	8-729-421-22	TRANSISTOR UN2211			
Q12	8-729-421-22	TRANSISTOR UN2211			
Q13	8-729-421-22	TRANSISTOR UN2211			
Q14	8-729-421-22	TRANSISTOR UN2211			
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W F
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R21	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R22	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R23	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R24	1-216-025-91	METAL CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W F
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W F
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	METAL CHIP	330	5%	1/8W
R31	1-216-025-91	METAL CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W F
R33	1-249-425-11	CARBON	4.7K	5%	1/4W F
R34	1-216-065-91	METAL CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R35	1-216-214-00	METAL CHIP	4.7K	5%	1/8W
R36	1-216-025-91	METAL CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	METAL CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R40	1-216-089-91	METAL CHIP	47K	5%	1/10W
R41	1-216-013-00	METAL CHIP	33	5%	1/10W
R42	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R43	1-216-037-00	METAL CHIP	330	5%	1/10W
R44	1-216-001-00	METAL CHIP	10	5%	1/10W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W F
R46	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R47	1-216-097-91	METAL CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W F
R49	1-216-049-91	METAL CHIP	1.0K	5%	1/10W
R50	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-91	METAL CHIP	4.7K	5%	1/10W
R52	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R53	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R55	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R57	1-216-162-00	METAL CHIP	33	5%	1/8W
R58	1-216-013-00	METAL CHIP	33	5%	1/10W
R91	1-216-295-91	METAL CHIP	0	5%	1/10W
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1751	1-247-807-31	CARBON	100	5%	1/4W
R1752	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1753	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1754	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1755	1-216-097-91	METAL CHIP	100K	5%	1/10W
R1756	1-249-401-11	CARBON	47	5%	1/4W F
R1757	1-216-295-91	METAL CHIP	0	5%	1/10W
		< VARIABLE RESISTOR >			
RV41	1-238-600-11	RES, ADJ, CARBON 10K			
RV42	1-238-600-11	RES, ADJ, CARBON 10K			
		< TERMINAL >			
TM1	1-537-488-11	TERMINAL BOARD (ANT) (ANTENNA)			
		< VIBRATOR >			
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz)			
X41	1-767-825-21	FILTER, CERAMIC (10.7MHz)			
X42	1-527-981-00	FILTER, CERAMIC (450KHz)			
X1751	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			

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Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
3	1-773-125-11	WIRE (FLAT TYPE) (19 CORE)	
153	1-233-545-31	ENCAPSULATED COMPONENT	(E,EA4,AR,TH,AUS)
153	1-233-546-31	ENCAPSULATED COMPONENT	(EA3,SP,MY,TW,CH)
153	1-693-385-31	TUNER (JE)	
⚠160	1-575-651-11	CORD, POWER (EA3(JAPAN PRODUCT))	
⚠160	1-575-653-11	CORD, POWER (TH,JE)	
⚠160	1-696-847-11	CORD, POWER (AUS)	
⚠160	1-751-520-11	CORD, POWER (UK)	
⚠160	1-777-071-21	CORD, POWER (AEP,EE,CIS,EA3,SP,MY,TW)	
⚠160	1-783-940-11	CORD, POWER (AR)	
⚠160	1-782-315-11	CORD, POWER (E)	
⚠160	1-783-205-11	CORD, POWER (CH)	
⚠161	1-569-007-11	ADAPTOR, CONVERSION 2P (E,JE)	
⚠161	1-569-008-21	ADAPTOR, CONVERSION 2P (EA3,SP,MY,AR,TW)	
FL601	1-517-775-11	INDICATOR TUBE, FLUORESCENT	
IC504	8-719-070-85	DIODE KU381-40	
M891	A-4660-926-A	MOTOR (CDM) ASSY	
M901	1-763-117-11	FAN, DC	
⚠T901	1-431-904-11	TRANSFORMER, POWER	(E,EA3,EA4,SP,MY,AR,TW,TH,AUS,CH,JE)
⚠T901	1-431-905-11	TRANSFORMER, POWER (AEP,UK,EE,CIS)	

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		HARDWARE LIST	
		**********	
#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-621-775-20	SCREW +B 2.6X5	
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
#5	7-685-881-09	SCREW +BVTT 4X8 (S)	
#6	7-685-872-09	SCREW +BVTT 3X8 (S)	
#7	7-685-546-19	SCREW +BVP 3X8	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-922-908-11

Sony Corporation
Home A&V Products Company

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